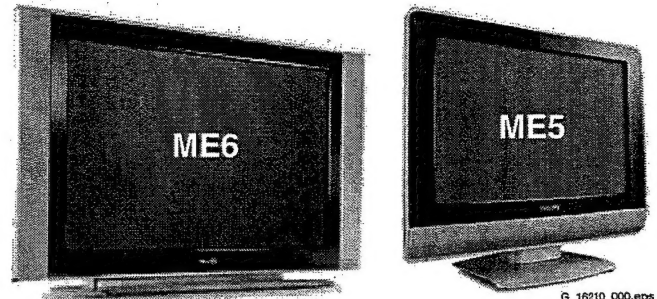


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## Service Manual

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# 1. Technical Specifications, Connections, and Chassis Overview

## Index of this chapter:

- 1.1 Technical Specifications
- 1.2 Connection Overview
- 1.3 Chassis Overview

## Notes:

- Figures can deviate due to the different set executions.
- Specifications are indicative (subject to change).

Presets/channels : 100 presets

Tuner bands : VHF  
: UHF  
: S-band  
: Hyper-band

## 1.1 Technical Specifications

### 1.1.1 Vision

Display type	: LCD, IPS
Screen size	:
- 26PF5321/10/12	: 26" (66 cm), 16:9
- 32PF5321/10/12	: 32" (82 cm), 16:9
- 37PF5321/10/12	: 37" (94 cm), 16:9
- 26PF7321/12	: 26" (66 cm), 16:9
- 32PF7321/12	: 32" (82 cm), 16:9
- 37PF7321/10/12	: 37" (94 cm), 16:9
- 42PF5421/10	: 42" (107 cm), 16:9
Resolution (HxV pixels)	: 1366 x 768
Contrast ratio	:
- 26PF5321/10/12	: 1200:1
- 32PF5321/10/12	: 1200:1
- 37PF5321/10/12	: 1200:1
- 26PF7321/12	: 2400:1
- 32PF7321/12	: 2400:1
- 37PF7321/10/12	: 2400:1
- 42PF5421/10	: 4000:1
Light output (cd/m <sup>2</sup> )	: 500
Response time (ms)	: 8
Viewing angle (HxV degrees)	:
- 26PF5321/10/12	: 178x178
- 32PF5321/10/12	: 178x178
- 37PF5321/10/12	: 176x176
- 26PF7321/12	: 178x178
- 32PF7321/12	: 178x178
- 37PF7321/10/12	: 176x176
- 42PF5421/10	: 176x176
Tuning system	: PLL
TV Colour systems	: PAL B/G, D/K, I : SECAM B/G, D/K, L/L'
Video playback	: NTSC M/N 3.58, 4.43 : PAL B/G : SECAM L/L'
Supported computer formats	: VGA (640x480) : MAC (640x480) : SVGA (800x600) : XWGA (1024x768) : WXGA (1280x768)
Supported video formats	: 640x480p - 2fH : 720x576p - 2fH : 1280x720p - 3fH : 1920x1080i - 2fH

### 1.1.2 Sound

Sound systems : NICAM B/G, D/K, I, L  
: AV Stereo

Maximum power (W<sub>RMS</sub>) :  
- 26PF5321/10/12 : 2 x 5  
- 32PF5321/10/12 : 2 x 15  
- 37PF5321/10/12 : 2 x 15  
- 26PF7321/12 : 2 x 5  
- 32PF7321/12 : 2 x 15  
- 37PF7321/10/12 : 2 x 15  
- 42PF5421/10 : 2 x 15

### 1.1.3 Miscellaneous

Power supply:  
Mains voltage (V<sub>AC</sub>) :  
- 26PF5321/10/12 : 110 - 240  
- 32PF5321/10/12 : 110 - 240  
- 37PF5321/10/12 : 220 - 240  
- 26PF7321/12 : 110 - 240  
- 32PF7321/12 : 110 - 240  
- 37PF7321/10/12 : 220 - 240  
- 42PF5421/10 : 220 - 240

Mains frequency (Hz) : 50 / 60

Ambient conditions:  
- Temperature range (°C) : +5 to +40  
- Maximum humidity : 90% R.H.

Power consumption:  
Normal operation (W) :  
- 26PF5321/10/12 : 100  
- 32PF5321/10/12 : 120  
- 37PF5321/10/12 : 180  
- 26PF7321/12 : 100  
- 32PF7321/12 : 120  
- 37PF7321/10/12 : 180  
- 42PF5421/10 : 246  
Stand-by (W) :  
- 26PF5321/10/12 : < 1  
- 32PF5321/10/12 : < 1  
- 37PF5321/10/12 : < 2  
- 26PF7321/12 : < 1  
- 32PF7321/12 : < 1  
- 37PF7321/10/12 : < 2  
- 42PF5421/10 : < 1

Dimensions (WxHxD cm):  
- 26PF5321/10/12 : 80.45 x 43.8 x 11.4  
- 32PF5321/10/12 : 92.4 x 50.7 x 11.9  
- 37PF5321/10/12 : 110.0 x 60.9 x 10.25  
- 26PF7321/12 : 69.75 x 49.48 x 9.97  
- 32PF7321/12 : 93.5 x 51.65 x 12.0  
- 37PF7321/10/12 : 111.4 x 61.8 x 10.3  
- 42PF5421/10 : 123.7 x 68.8 x 11.0

Weight (kg):  
- 26PF5321/10/12 : 13.3  
- 32PF5321/10/12 : 18.9  
- 37PF5321/10/12 : 25.1



- 26PF7321/12	: 13.0
- 32PF7321/12	: 19.2
- 37PF7321/10/12	: 25.9
- 42PF5421/10	: 31.5

## 1.2 Connection Overview

**Note:** The following connector colour abbreviations are used (acc. to DIN/IEC 757): Bk= Black, Bu= Blue, Gn= Green, Gy= Grey, Rd= Red, Wh= White, and Ye= Yellow.

### 1.2.1 Side I/O connections

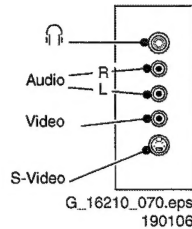


Figure 1-1 Side I/O connections

#### S-Video (Hosiden): Video Y/C - In

1 - Ground Y	Gnd	⊕
2 - Ground C	Gnd	⊕
3 - Video Y	1 V <sub>PP</sub> / 75 ohm	⊕
4 - Video C	0.3 V <sub>PP</sub> / 75 ohm	⊕

#### Cinch: Video CVBS - In, Audio - In

Ye - Video CVBS	1 V <sub>PP</sub> / 75 ohm	⊕
Wh - Audio L	0.5 V <sub>RMS</sub> / 10 kohm	⊕
Rd - Audio R	0.5 V <sub>RMS</sub> / 10 kohm	⊕

#### Mini Jack: Audio Head phone - Out

Bk - Head phone	32 - 600 ohm / 10 mW	⊕
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### 1.2.2 Rear Connections

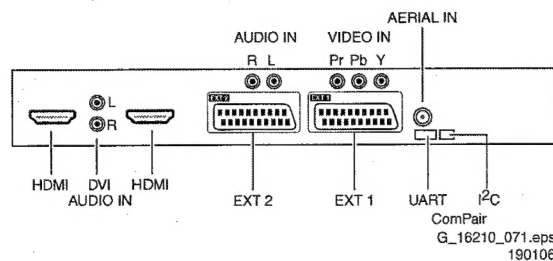


Figure 1-2 Rear I/O

#### Aerial - In

- IEC-type (EU)	Coax, 75 ohm	⊕
-----------------	--------------	---

#### Cinch: Audio - In

Wh - Audio L	0.5 V <sub>RMS</sub> / 10 kohm	⊕
Rd - Audio R	0.5 V <sub>RMS</sub> / 10 kohm	⊕

#### Cinch: Video YPbPr - In

Gn - Video Y	1 V <sub>PP</sub> / 75 ohm	⊕
Bu - Video Pb	0.7 V <sub>PP</sub> / 75 ohm	⊕
Rd - Video Pr	0.7 V <sub>PP</sub> / 75 ohm	⊕

#### Cinch: DVI Audio - In

Rd - Audio - R	0.5 V <sub>RMS</sub> / 10 kohm	⊕
Wh - Audio - L	0.5 V <sub>RMS</sub> / 10 kohm	⊕

#### Service connector (ComPair)

1 - SDA-S	I <sup>2</sup> C Data (0 - 5 V)	⊕
2 - SCL-S	I <sup>2</sup> C Clock (0 - 5 V)	⊕
3 - Ground	Gnd	⊕

#### Service connector (UART)

1 - UART_TX	Transmit	⊕
2 - Ground	Gnd	⊕
3 - UART_RX	Receive	⊕

#### HDMI: Digital Video/Digital Audio - In



Figure 1-3 HDMI (type A) connector

1 - D2+	Data channel	⊕
2 - Shield	Gnd	⊕
3 - D2-	Data channel	⊕
4 - D1+	Data channel	⊕
5 - Shield	Gnd	⊕
6 - D1-	Data channel	⊕
7 - D0+	Data channel	⊕
8 - Shield	Gnd	⊕
9 - D0-	Data channel	⊕
10 - CLK+	Data channel	⊕
11 - Shield	Gnd	⊕
12 - CLK-	Data channel	⊕
13 - n.c.		
14 - n.c.		
15 - DDC_SCL	DDC clock	⊕
16 - DDC_SDA	DDC data	⊕
17 - Ground	Gnd	⊕
18 - +5V		⊕
19 - HPD	Hot Plug Detect	⊕
20 - Ground	Gnd	⊕

#### EXT1: Video RGB - In, CVBS - In/Out, Audio - In/Out

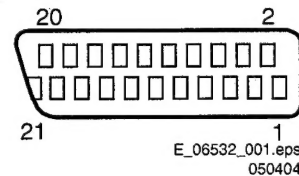


Figure 1-4 SCART connector

1 - Audio R	0.5 V <sub>RMS</sub> / 1 kohm	⊕
2 - Audio R	0.5 V <sub>RMS</sub> / 10 kohm	⊕
3 - Audio L	0.5 V <sub>RMS</sub> / 1 kohm	⊕
4 - Ground Audio	Gnd	⊕
5 - Ground Blue	Gnd	⊕
6 - Audio L	0.5 V <sub>RMS</sub> / 10 kohm	⊕
7 - Video Blue	0.7 V <sub>PP</sub> / 75 ohm	⊕
8 - Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3	⊕
9 - Ground Green	Gnd	⊕
10 - n.c.		
11 - Video Green	0.7 V <sub>PP</sub> / 75 ohm	⊕
12 - n.c.		
13 - Ground Red	Gnd	⊕
14 - Ground	Gnd	⊕
15 - Video Red	0.7 V <sub>PP</sub> / 75 ohm	⊕
16 - Status/FBL	0 - 0.4 V: INT 1 - 3 V: EXT / 75 ohm	⊕
17 - Ground Video	Gnd	⊕
18 - Ground FBL	Gnd	⊕
19 - Video Terr. CVBS	1 V <sub>PP</sub> / 75 ohm	⊕
20 - Video CVBS/Y	1 V <sub>PP</sub> / 75 ohm	⊕
21 - Shield	Gnd	⊕

EXT2: Video Y/C - in, CVBS - In/Out, Audio - In/Out

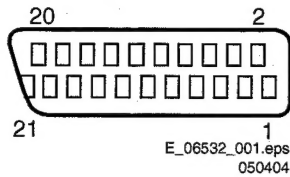
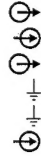


Figure 1-5 SCART connector

1 - Audio R	0.5 V <sub>RMS</sub> / 1 kohm
2 - Audio R	0.5 V <sub>RMS</sub> / 10 kohm
3 - Audio L	0.5 V <sub>RMS</sub> / 1 kohm
4 - Ground Audio	Gnd
5 - Ground Blue	Gnd
6 - Audio L	0.5 V <sub>RMS</sub> / 10 kohm



7 - n.c.	
8 - Function Select	0 - 2 V: INT 4.5 - 7 V: EXT 16:9 9.5 - 12 V: EXT 4:3
9 - Ground Green	Gnd
10 - n.c.	
11 - n.c.	
12 - n.c.	
13 - Ground Red	Gnd
14 - Ground	Gnd
15 - Y/C - in	0.7 V <sub>PP</sub> / 75 ohm
16 - n.c.	
17 - Ground Video	Gnd
18 - Ground	Gnd
19 - Video Mon. CVBS	1 V <sub>PP</sub> / 75 ohm
20 - Y/C/Y - in	0.7 V <sub>PP</sub> / 75 ohm
21 - Shield	Gnd



### 1.3 Chassis Overview

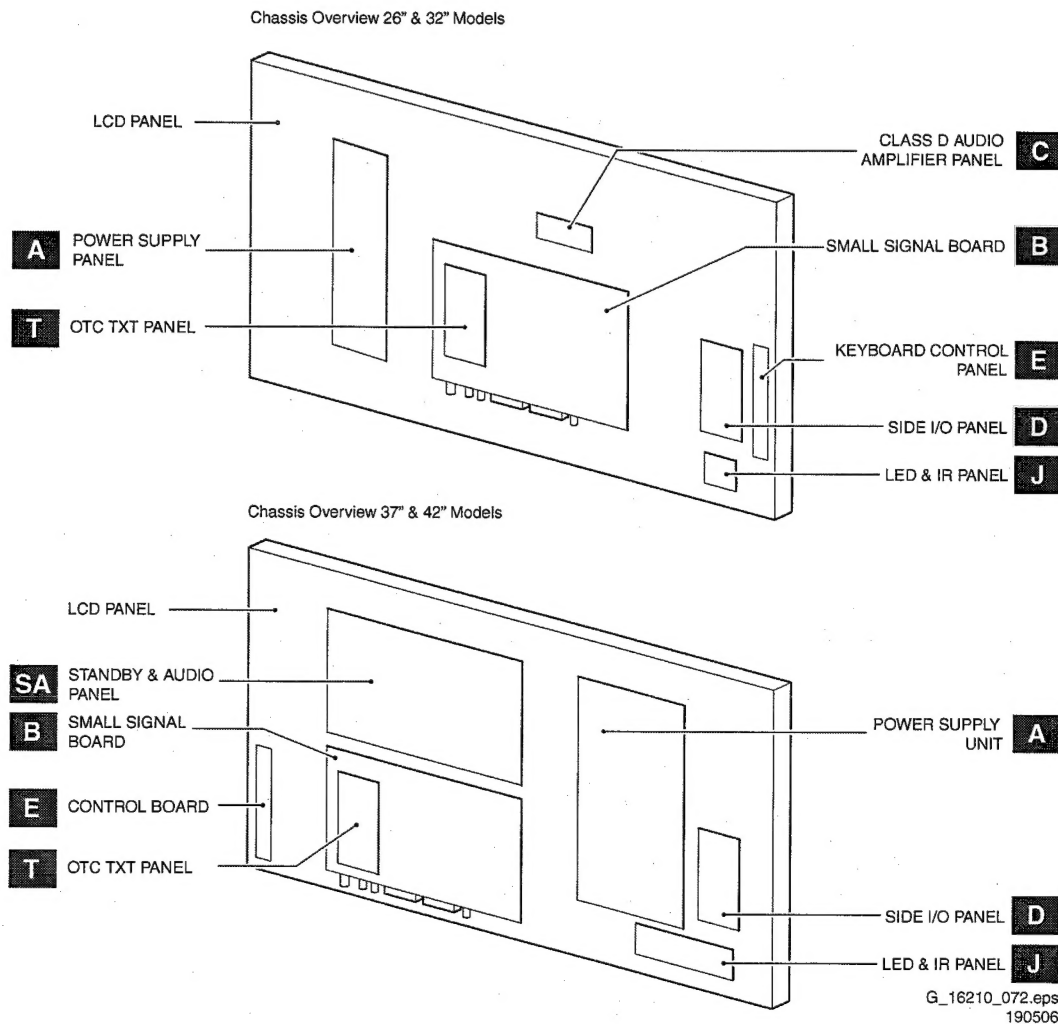


Figure 1-6 Chassis overview


## 2. Safety Instructions, Warnings, and Notes

### Index of this chapter:

- 2.1 Safety Instructions
- 2.2 Warnings
- 2.3 Notes

### 2.1 Safety Instructions


Safety regulations require the following **during** a repair:

- Connect the set to the Mains (AC Power) via an isolation transformer (> 800 VA).
- Replace safety components, indicated by the symbol , only by components identical to the original ones. Any other component substitution (other than original type) may increase risk of fire or electrical shock hazard.

Safety regulations require that **after** a repair, the set must be returned in its original condition. Pay in particular attention to the following points:







- Route the wire trees correctly and fix them with the mounted cable clamps.
- Check the insulation of the Mains (AC Power) lead for external damage.
- Check the strain relief of the Mains (AC Power) cord for proper function.
- Check the electrical DC resistance between the Mains (AC Power) plug and the secondary side (only for sets that have a Mains (AC Power) isolated power supply):
  1. Unplug the Mains (AC Power) cord and connect a wire between the two pins of the Mains (AC Power) plug.
  2. Set the Mains (AC Power) switch to the "on" position (keep the Mains (AC Power) cord unplugged!).
  3. Measure the resistance value between the pins of the Mains (AC Power) plug and the metal shielding of the tuner or the aerial connection on the set. The reading should be between 4.5 Mohm and 12 Mohm.
  4. Switch "off" the set, and remove the wire between the two pins of the Mains (AC Power) plug.
- Check the cabinet for defects, to prevent touching of any inner parts by the customer.

### 2.2 Warnings

- All ICs and many other semiconductors are susceptible to electrostatic discharges (ESD ) . Careless handling during repair can reduce life drastically. Make sure that, during repair, you are connected with the same potential as the mass of the set by a wristband with resistance. Keep components and tools also at this same potential. Available ESD protection equipment:
  - Complete kit ESD3 (small tablemat, wristband, connection box, extension cable and earth cable) 4822 310 10671.
  - Wristband tester 4822 344 13999.
- Be careful during measurements in the high voltage section.
- Never replace modules or other components while the unit is switched "on".
- When you align the set, use plastic rather than metal tools. This will prevent any short circuits and the danger of a circuit becoming unstable.

### 2.3 Notes

#### 2.3.1 General

- Measure the voltages and waveforms with regard to the chassis (= tuner) ground () , or hot ground () , depending on the tested area of circuitry. The voltages and waveforms shown in the diagrams are indicative. Measure them in the Service Default Mode (see chapter 5) with a colour bar signal and stereo sound (L: 3 kHz, R: 1 kHz unless stated otherwise) and picture carrier at 475.25 MHz for PAL, or 61.25 MHz for NTSC (channel 3).
- Where necessary, measure the waveforms and voltages with () and without () aerial signal. Measure the voltages in the power supply section both in normal operation () and in stand-by () . These values are indicated by means of the appropriate symbols.
- The semiconductors indicated in the circuit diagram and in the parts lists, are interchangeable per position with the semiconductors in the unit, irrespective of the type indication on these semiconductors.

#### 2.3.2 Schematic Notes

- All resistor values are in ohms, and the value multiplier is often used to indicate the decimal point location (e.g. 2K2 indicates 2.2 kohm).
- Resistor values with no multiplier may be indicated with either an "E" or an "R" (e.g. 220E or 220R indicates 220 ohm).
- All capacitor values are given in micro-farads ( $\mu = \times 10^{-6}$ ), nano-farads ( $n = \times 10^{-9}$ ), or pico-farads ( $p = \times 10^{-12}$ ).
- Capacitor values may also use the value multiplier as the decimal point indication (e.g. 2p2 indicates 2.2 pF).
- An "asterisk" (\*) indicates component usage varies. Refer to the diversity tables for the correct values.
- The correct component values are listed in the Spare Parts List. Therefore, always check this list when there is any doubt.

#### 2.3.3 Rework on BGA (Ball Grid Array) ICs

##### General

Although (LF)BGA assembly yields are very high, there may still be a requirement for component rework. By rework, we mean the process of removing the component from the PWB and replacing it with a new component. If an (LF)BGA is removed from a PWB, the solder balls of the component are deformed drastically so the removed (LF)BGA has to be discarded.

##### Device Removal

As is the case with any component that, is being removed, it is essential when removing an (LF)BGA, that the board, tracks, solder lands, or surrounding components are not damaged. To remove an (LF)BGA, the board must be uniformly heated to a temperature close to the reflow soldering temperature. A uniform temperature reduces the risk of warping the PWB. To do this, we recommend that the board is heated until it is certain that all the joints are molten. Then carefully pull the component off the board with a vacuum nozzle. For the appropriate temperature profiles, see the IC data sheet.

##### Area Preparation

When the component has been removed, the vacant IC area must be cleaned before replacing the (LF)BGA. Removing an IC often leaves varying amounts of solder on the mounting lands. This excessive solder can be removed with either a solder sucker or solder wick. The remaining flux can be removed with a brush and cleaning agent.

After the board is properly cleaned and inspected, apply flux on the solder lands and on the connection balls of the (LF)BGA.

**Note:** Do not apply solder paste, as this has been shown to result in problems during re-soldering.

#### Device Replacement

The last step in the repair process is to solder the new component on the board. Ideally, the (LF)BGA should be aligned under a microscope or magnifying glass. If this is not possible, try to align the (LF)BGA with any board markers. So as not to damage neighbouring components, it may be necessary to reduce some temperatures and times.

#### More Information

For more information on how to handle BGA devices, visit this URL: [www.atyourservice.ce.philips.com](http://www.atyourservice.ce.philips.com) (needs subscription, not available for all regions). After login, select "Magazine", then go to "Repair downloads". Here you will find information on how to deal with BGA-ICs.

### 2.3.4 Lead-free Solder

Philips CE is producing lead-free sets (PBF) from 1.1.2005 onwards.

**Identification:** The bottom line of a type plate gives a 14-digit serial number. Digits 5 and 6 refer to the production year, digits 7 and 8 refer to production week (in example below it is 1991 week 18).

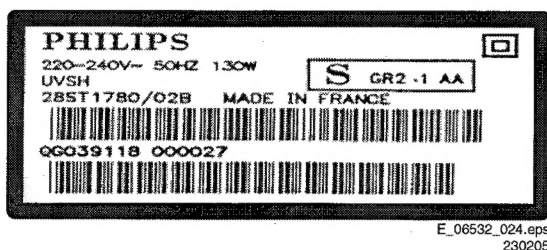


Figure 2-1 Serial number example

Regardless of the special lead-free logo (which is not always indicated), one must treat all sets from this date onwards according to the rules as described below.



Figure 2-2 Lead-free logo

Due to lead-free technology some rules have to be respected by the workshop during a repair:

- Use only lead-free soldering tin Philips SAC305 with order code 0622 149 00106. If lead-free solder paste is required, please contact the manufacturer of your soldering equipment. In general, use of solder paste within workshops should be avoided because paste is not easy to store and to handle.
- Use only adequate solder tools applicable for lead-free soldering tin. The solder tool must be able:
  - To reach a solder-tip temperature of at least 400°C.
  - To stabilise the adjusted temperature at the solder-tip.
  - To exchange solder-tips for different applications.
- Adjust your solder tool so that a temperature of around 360°C - 380°C is reached and stabilised at the solder joint. Heating time of the solder-joint should not exceed ~ 4 sec. Avoid temperatures above 400°C, otherwise wear-out of tips will increase drastically and flux-fluid will be destroyed.

To avoid wear-out of tips, switch "off" unused equipment or reduce heat.

- Mix of lead-free soldering tin/parts with leaded soldering tin/parts is possible but PHILIPS recommends strongly to **avoid** mixed regimes. If this cannot be avoided, carefully clear the solder-joint from old tin and re-solder with new tin.
- Use only original spare-parts listed in the Service-Manuals. Not listed standard material (commodities) has to be purchased at external companies.
- Special information for lead-free BGA ICs: these ICs will be delivered in so-called "dry-packaging" to protect the IC against moisture. This packaging may only be opened shortly before it is used (soldered). Otherwise the body of the IC gets "wet" inside and during the heating time the structure of the IC will be destroyed due to high (steam-) pressure inside the body. If the packaging was opened before usage, the IC has to be heated up for some hours (around 90°C) for drying (think of ESD-protection!).  
**Do not re-use BGAs at all!**
- For sets produced before 1.1.2005, containing leaded soldering tin and components, all needed spare parts will be available till the end of the service period. For the repair of such sets nothing changes.

In case of doubt whether the board is lead-free or not (or with mixed technologies), you can use the following method:

- Always use the highest temperature to solder, when using SAC305 (see also instructions below).
- De-solder thoroughly (clean solder joints to avoid the mixing of two alloys).

**Caution:** For BGA-ICs, you **must** use the correct temperature profile, which is coupled to the 12NC. For an overview of these profiles, visit the website [www.atyourservice.ce.philips.com](http://www.atyourservice.ce.philips.com) (needs subscription, but is not available for all regions). You will find this and more technical information within the "Magazine", chapter "Repair downloads". For additional questions please contact your local repair help desk.

### 2.3.5 Alternative BOM identification

In September 2003, Philips CE introduced a change in the way the serial number (or production number, see Figure 2-1) is composed. From this date on, the **third digit** in the serial number (example: AG2B0335000001) indicates the number of the alternative BOM (Bill of Materials used for producing the specific model of TV set). It is possible that the same TV model on the market is produced with e.g. two different types of displays, coming from two different O.E.M.s.

By looking at the third digit of the serial number, the service technician can see if there is more than one type of B.O.M. used in the production of the TV set he is working with. He can then consult the At Your Service Web site, where he can type in the Commercial Type Version Number of the TV set (e.g. 28PW9515/12), after which a screen will appear that gives information about the number of alternative B.O.M.s used. If the third digit of the serial number contains the number 1 (example: AG1B0335000001), then there is only one B.O.M. version of the TV set on the market. If the third digit is a 2 (example: AG2B0335000001), then there are two different B.O.M.s. **Information about this is important for ordering the correct spare parts!**

For the third digit, the numbers 1...9 and the characters A...Z can be used, so in total: 9 plus 26 = 35 different B.O.M.s can be indicated by the third digit of the serial number.

### 2.3.6 Practical Service Precautions

- **It makes sense to avoid exposure to electrical shock.** While some sources are expected to have a possible dangerous impact, others of quite high potential are of limited current and are sometimes held in less regard.

- **Always respect voltages.** While some may not be dangerous in themselves, they can cause unexpected reactions that are best avoided. Before reaching into a

powered TV set, it is best to test the high voltage insulation. It is easy to do, and is a good service precaution.

### 3. Directions for Use

You can download this information from the following websites:

<http://www.philips.com/support>

<http://www.p4c.philips.com>



## 4. Mechanical Instructions

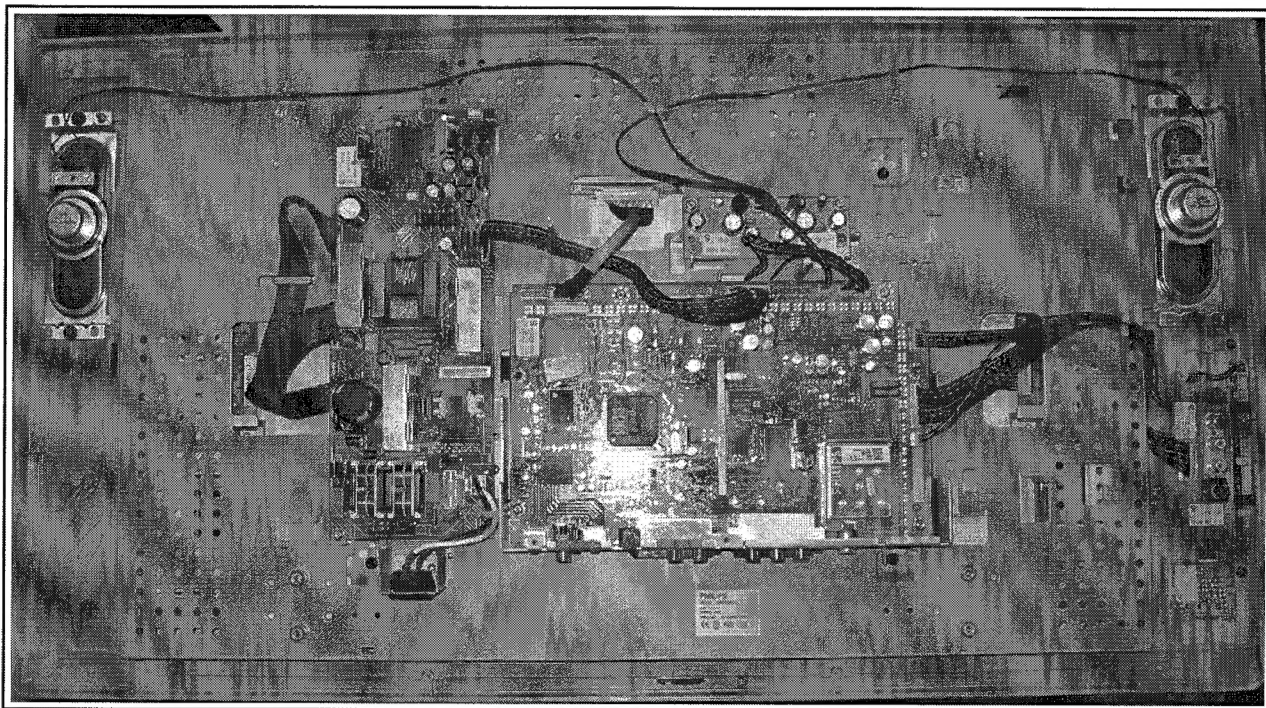
### Index of this chapter:

- 4.1 Cable Dressing
- 4.2 Service Position
- 4.3 Assy/Panel Removal
- 4.4 Set Re-assembly

### Notes:

- Figures below can deviate slightly from the actual situation, due to the different set executions.
- Follow the disassembling instructions in described order.

### 4.1 Cable Dressing



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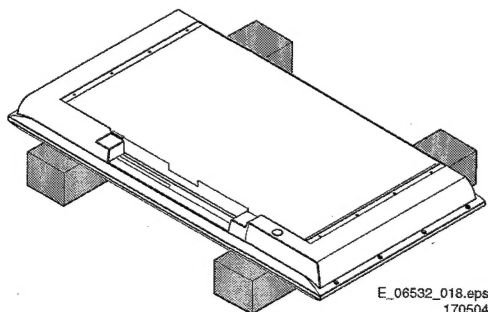
Figure 4-1 Cable dressing (26PF5321/10)

### 4.2 Service Position

First, put the TV set in its service position. Therefore, place it upside down on a table top (use a protection sheet or foam bars).

placing a mirror flat on the table under the TV you can easily see if something is happening on the screen.

#### 4.2.1 The Foam Bars



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170504

Figure 4-2 Foam bars

The foam bars (order code 3122 785 90580) can be used for all types and sizes of Flat TVs. By laying the plasma or LCD TV flat on the (ESD protective) foam bars, a stable situation is created to perform measurements and alignments. By first

### 4.3 Assy/Panel Removal

#### 4.3.1 Rear Cover

**Warning:** Disconnect the mains power cord before you remove the rear cover.

1. Remove the screws that secure the rear cover.
2. Lift the rear cover from the cabinet cautiously. Make sure that wires and other internal components are not damaged during cover removal.

## 4.3.2 Side I/O Panel

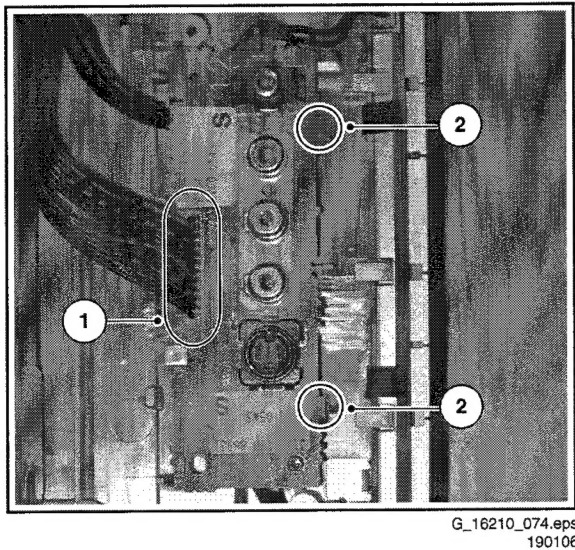


Figure 4-3 Side I/O panel

1. Disconnect the cable [1] from the panel.
2. Release the two fixation clamps [2] and lift the panel out of the bracket.

## 4.3.3 LED Panel

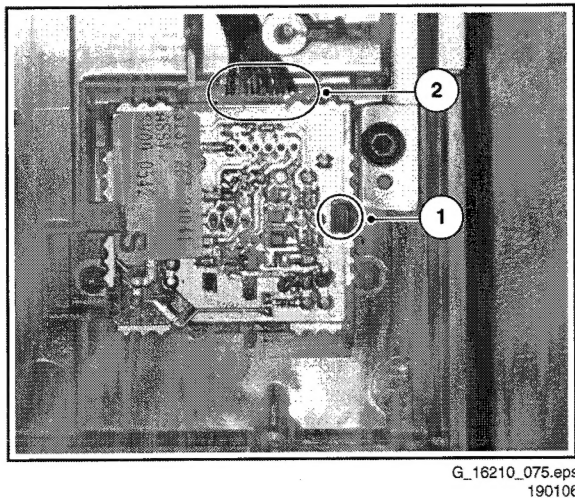


Figure 4-4 LED panel

1. Release the fixation clamp [1] and take the panel out of the bracket.
2. Disconnect the cable [2] from the panel.

## 4.3.4 Keyboard Control Panel

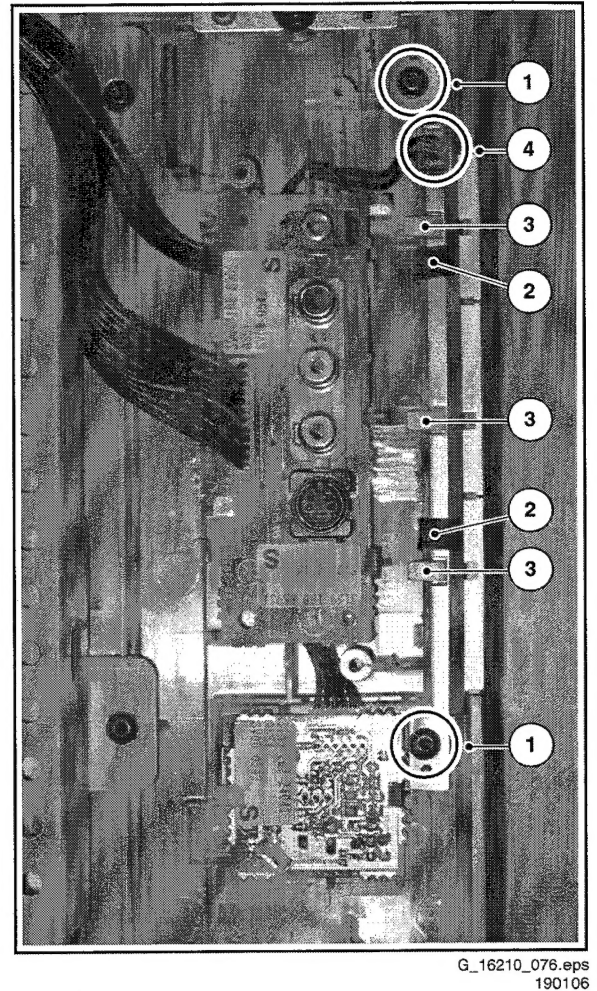


Figure 4-5 Keyboard control panel

1. Remove the two fixation screws [1] from the bracket and take out the panel/bracket combination.
2. Remove the fixation tape [2] from the panel/bracket combination.
3. Release the three fixation clamps [3] and lift the panel out of the bracket.
4. Disconnect the cable [4] from the panel.

## 4.3.5 SSB Cover Shield (depending on model)

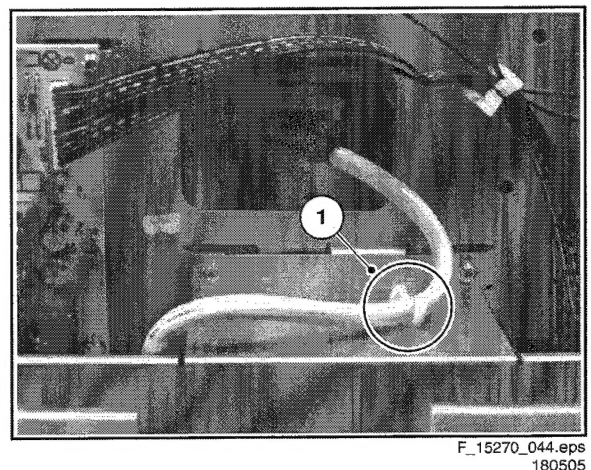
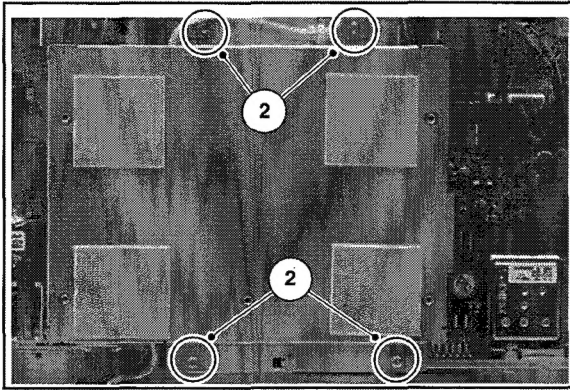


Figure 4-6 Cable clip on cover shield



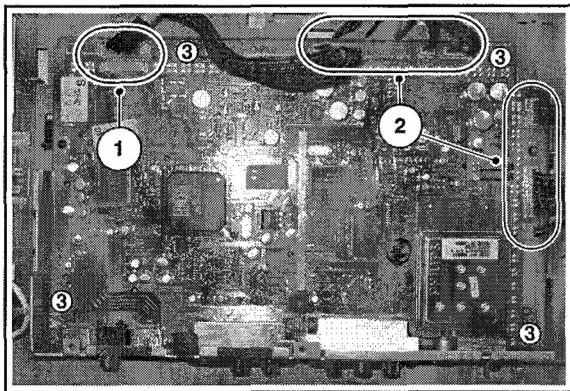
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190505

Figure 4-7 SSB cover shield

1. Release the cable from the plastic cable clip [1] on the shield (see Figure "Cable clip on cover shield" above).
2. Remove the four fixation screws (2, see Figure "SSB cover shield"; the screws are also indicated by arrows on the shield) and remove the shield.

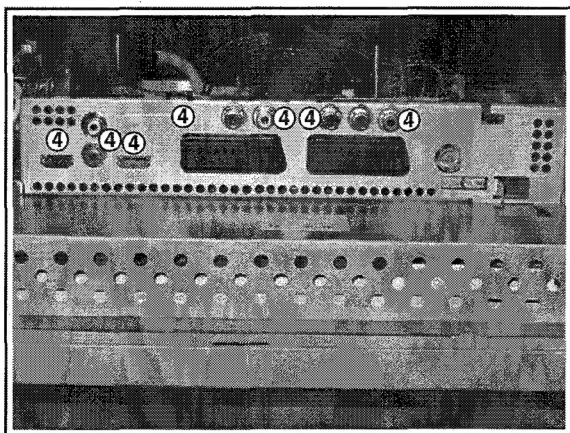
**Notice** that on one side, the shield is not only held by two screws, but also by two brackets (see Figure "Cable clip on cover shield" above).

#### 4.3.6 Small Signal Board



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190106

Figure 4-8 SSB connectors

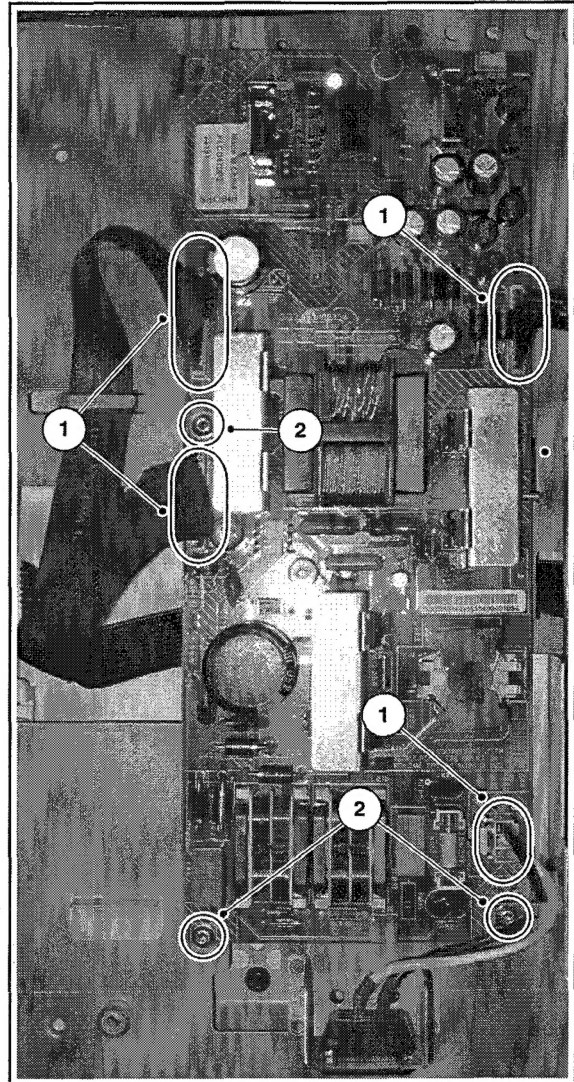


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200106

Figure 4-9 Connector screws

1. Very **cautiously** disconnect the LVDS cable [1] from the panel (see Figure "SSB connectors"). Notice that this cable is very fragile.
2. Disconnect the other cables [2] from the panel.
3. Remove the fixation screws [3] that secure the SSB (depending on model) and also the fixation screws [4] from the connector plate (see Figure "Connector screws").
4. Take the panel out of its brackets.

#### 4.3.7 Power Supply Panel (various models used)



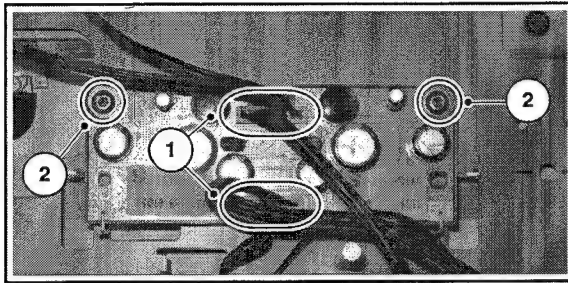
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Figure 4-10 Power supply panel

1. Disconnect all cables [1] from the panel.  
**Notice** that the two connectors for X520 and X530 on this panel are similar, and should not be mixed up later when they are reconnected (X520 is connected via its flatcable to connector CN01 on the LCD panel, near the R-speaker; X530 is connected via its flatcable to connector CN04 on the LCD panel, near the L-speaker).
2. Remove the fixation screws [2] from the panel.
3. Take the panel out of its brackets.



### 4.3.8 Audio Amplifier Panel

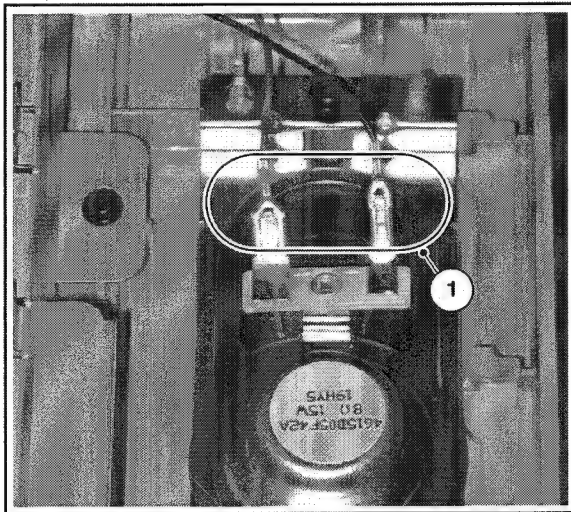


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Figure 4-11 Audio amplifier panel

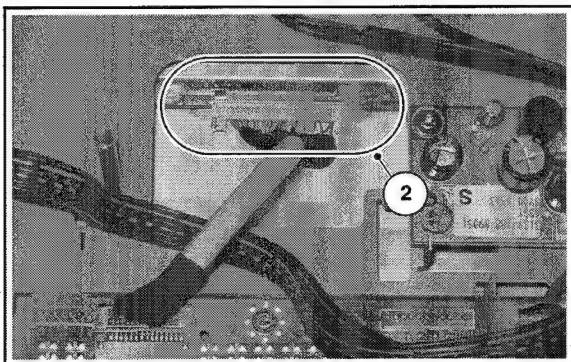
1. Disconnect all cables [1] from the panel.
2. Remove the fixation screws [2] from the panel.
3. Remove the panel.

### 4.3.9 LCD Panel



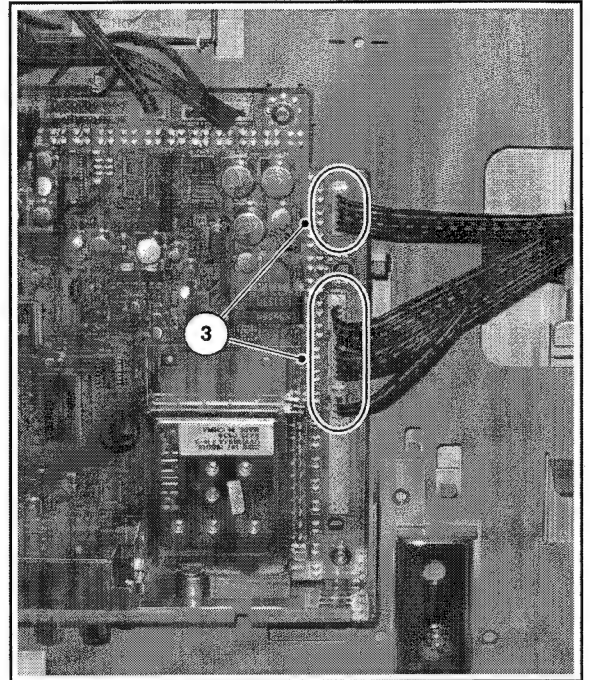
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Figure 4-12 Loudspeaker cables



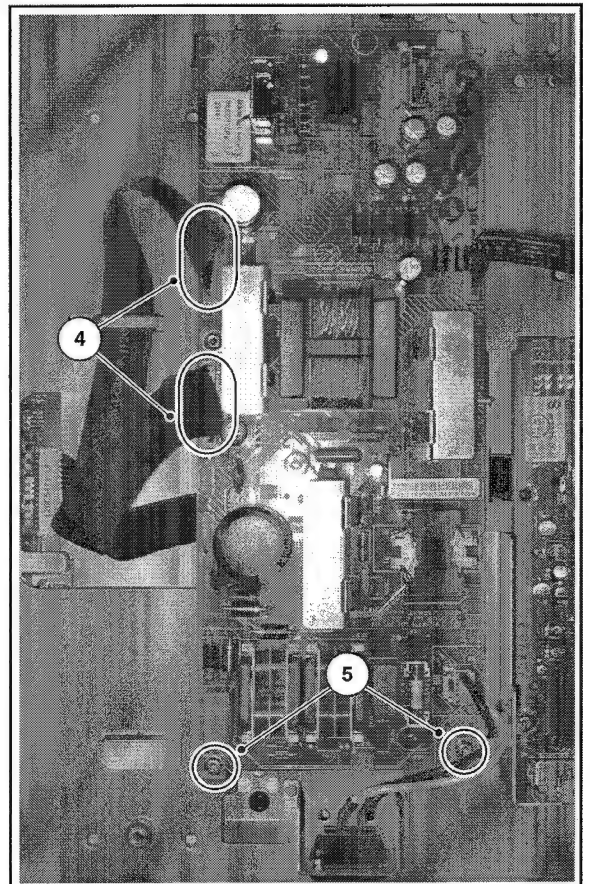
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Figure 4-13 LVDS connector



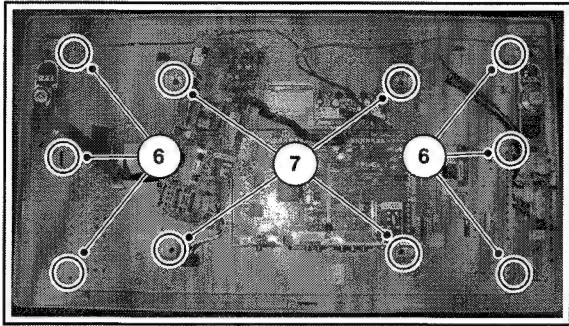
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Figure 4-14 SSB connectors for side I/O, side control panel, and LED



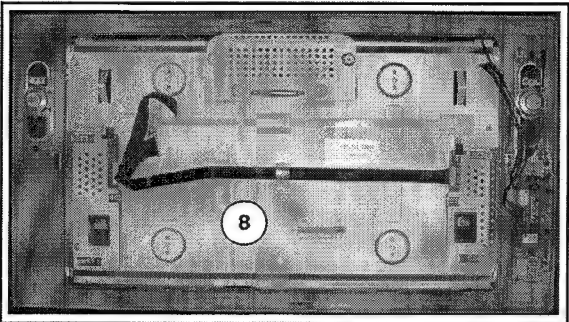
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Figure 4-15 Connectors X520 and X530 and fixation screws on power supply panel



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200106

Figure 4-16 Shield screws of the LCD panel



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Figure 4-17 LCD panel

To remove the LCD-panel, carry out the following steps:

1. Disconnect the cables [1] from the "L" and the "R" loudspeakers (see Figure "Loudspeaker cables").
2. **Important:** Unplug the LVDS connector [2] on the LCD panel (see Figure "LVDS connector"), or better: remove the cable completely.  
**Be careful**, as this is a very fragile connector/cable!
3. Unplug the connectors [3] of the Side I/O panel, the Top Control panel, and the LED panel on the SSB (see Figure "SSB connectors for side I/O, side control panel, and LED").
4. Unplug the connectors X520 and X530 [4] on the Power Supply board (see Figure "Connectors X520 and X530 and fixation screws on power supply panel").
5. Loosen the fixation screws [5] from the power supply board, and put the power supply board a bit aside.
6. Loosen screws [6] and [7] (see Figure "Shield screws of the LCD panel").
7. Lift the metal frame (together with all PWBs) from the LCD panel.  
**Take care not to damage the fragile LVDS cable.**
8. After removal of the metal frame, you can lift the LCD display [8] from its plastic frame (see Figure "LCD panel").
9. If the plastic frame is damaged, replace it by a new frame, after removing the loudspeakers, the Side I/O panel, the Side Control panel, and the LED panel.

#### 4.4 Set Re-assembly

To re-assemble the whole set, execute all processes in reverse order.

##### Notes:

- While re-assembling, make sure that all cables are placed and connected in their original positions. See Figure "Cable dressing".  
Be careful with the fragile LVDS cable.



## 5. Service Modes, Error Codes, and Fault Finding

### Index of this chapter:

- 5.1 Test Points
- 5.2 Service Modes
- 5.3 Problems and Solving Tips Related to CSM
- 5.4 Service Tools
- 5.5 Error Codes
- 5.6 The Blinking LED Procedure
- 5.7 Fault Finding and Repair Tips

### 5.1 Test Points

This chassis is equipped with test points. In the schematics, test points are indicated with a rectangle box around Fxxx or lxxx, in the layouts with a half-moon.

Perform measurements under the following conditions:

- Television set in Service Default Mode.
- Video input: Colour bar signal.
- Audio input: 3 kHz left channel, 1 kHz right channel.

### 5.2 Service Modes

Service Default mode (SDM) and Service Alignment Mode (SAM) offer several features for the service technician, while the Customer Service Mode (CSM) is used for communication between the call centre and the customer.

This chassis also offers the option of using ComPair, a hardware interface between a computer and the TV chassis. It offers the possibilities of structured troubleshooting, error code reading, and software version read-out for all chassis.

*Minimum requirements for ComPair:* a Pentium processor, a Windows OS, and a CD-ROM drive (see also paragraph "ComPair").

#### 5.2.1 Service Default Mode (SDM)

##### Purpose

- To create a predefined setting for measurements to be made.
- To override software protections.
- To start the blinking LED procedure.
- To inspect the error buffer.
- To check the life timer.

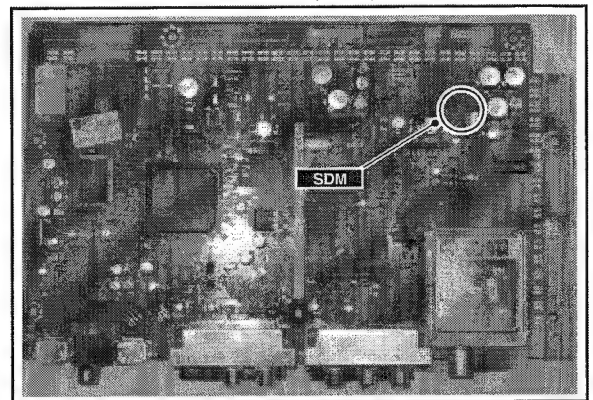
##### Specifications

- Tuning frequency: 475.25 MHz.
- Colour system: PAL-BG.
- All picture settings at 50% (brightness, colour contrast, hue).
- Bass, treble, and balance at 50 %; volume at 25 %.
- All service-unfriendly modes (if present) are disabled. The service unfriendly modes are:
  - Timer / Sleep timer.
  - Child / parental lock.
  - Blue mute.
  - Hotel / hospital mode.
  - Auto shut off (when no "IDENT" video signal is received for 15 minutes).
  - Skipping of non-favourite presets / channels.
  - Auto-storage of personal presets.
  - Auto user menu time-out.
  - Auto Volume Levelling (AVL).

### How to Enter

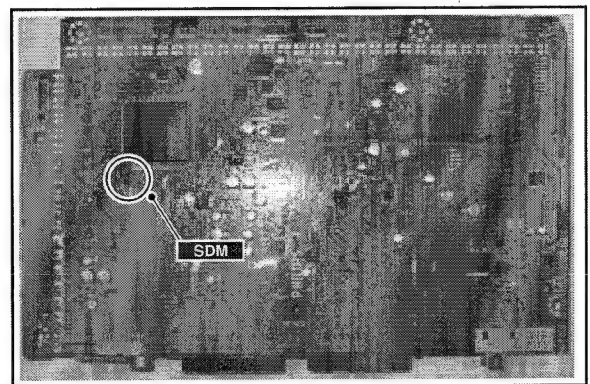
To enter SDM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "062596" directly followed by the MENU button (do not allow the display to time out between entries while keying the sequence).
  - Short one of the "Service" jumpers on the TV board during cold start and apply mains (see Figures "Service jumper"). Then press the mains button (remove the short after start-up).
- Caution:** Entering SDM by shorting "Service" jumpers will override the +8V-protection. Do this only for a short period. When doing this, the service-technician must know exactly what he is doing, as it could damage the television set.
- Or via ComPair.



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Figure 5-1 Service jumper (component side)



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Figure 5-2 Service jumper (solder side)

After entering SDM, the following screen is visible, with SDM in the upper right corner of the screen to indicate that the television is in Service Default Mode.

```
00035 HSD21E1 1.00/S21LXN 1.00 SDM
ERR 0 0 0 0 0
OP 152 167 015 081 252 127 019
```

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Figure 5-3 SDM menu

#### How to Navigate

Use one of the following methods:

- When you press the MENU button on the remote control, the set will switch on the normal user menu in the SDM mode.
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SDM to SAM and reverse; or press the following key sequence on the remote control transmitter: "062596" directly followed by the OSD button to switch to SAM (do not allow the display to time out between entries while keying the sequence).

#### How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set. If you turn the television set off by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SDM when mains is re-applied, and the error buffer is not cleared.

### 5.2.2 Service Alignment Mode (SAM)

#### Purpose

- To change option settings.
- To display / clear the error code buffer.
- To perform alignments.

#### Specifications

- Operation hours counter (maximum five digits displayed).
- Software version, Error codes, and Option settings display.
- Error buffer clearing.
- Option settings.
- Software alignments (Tuner, White Tone, Geometry & Audio).
- NVM Editor.
- ComPair Mode switching.

#### How to Enter

To enter SAM, use one of the following methods:

- Press the following key sequence on the remote control transmitter: "062596" directly followed by the OSD/STATUS/INFO(I+) button (do not allow the display to time out between entries while keying the sequence).
- Or via ComPair.

After entering SAM, the following screen is visible, with SAM in the upper right corner of the screen to indicate that the television is in Service Alignment Mode.

```
00035 HSD21E1 1.00/S21LXN 1.00 SAM
ERR 0 0 0 0 0

OP 152 167 015 081 252 127 019

. Clear                      Clear ? ►
. Options                    ►
. Tuner                      ►
. White Tone                 ►
. Audio                      ►
. NVM Editor                 ►
. SC NVM Editor              ►
. ComPair Mode               ► On
```

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Figure 5-4 SAM menu

#### Menu Explanation

1. **LLLLL**. This represents the run timer. The run timer counts normal operation hours, but does not count standby hours.
2. **AAABCD X.YY**. This is the software identification of the main microprocessor:
  - **A**= the project name (LC04.x).
  - **B**= the region: E= Europe, A= Asia Pacific, U= NAFTA, L= LATAM.
  - **C**= the software diversity:
    - **Europe**: T= 1 page TXT, F= Full TXT, V= Voice control.
    - **LATAM and NAFTA**: N= Stereo non-dBx, S= Stereo dBx.
    - **Asian Pacific**: T= TXT, N= non-TXT, C= NTSC.
    - **ALL regions**: M= mono, D= DVD, Q= Mk2.
  - **D**= the language cluster number.
  - **X**= the main software version number (updated with a major change that is incompatible with previous versions).
  - **Y**= the sub software version number (updated with a minor change that is compatible with previous versions).
3. **EEEE F.GG**. This is the software identification of the Scaler:
  - **EEEEEE**= the scaler sw cluster
  - **F**= the main sw version no.
  - **GG**= the sub-version no.
4. **SAM**. Indication of the Service Alignment Mode.
5. **Error Buffer**. Shows all errors detected since the last time the buffer was erased. Five errors possible.
6. **Option Bytes**. Used to read-out the option bytes. See "Options" in the Alignments section for a detailed description. Seven codes are possible.
7. **Clear**. Erases the contents of the error buffer. Select the CLEAR menu item and press the MENU RIGHT key. The content of the error buffer is cleared.
8. **Options**. Used to set the option bits. See "Options" in the Alignments section for a detailed description.
9. **Tuner**. Used to align the tuner. See "Tuner" in the Alignments section for a detailed description.
10. **White Tone**. Used to align the white tone. See "White Tone" in the Alignments section for a detailed description.
11. **Audio**. No audio alignment is necessary for this television set.
12. **NVM Editor**. Can be used to change the NVM data in the television set. See table "NVM data" further on.

13. **SC NVM Editor.** Can be used to edit Scaler NVM.

14. **ComPair.** Can be used to switch on the television to In System Programming (ISP) mode, for software uploading via ComPair.

**Caution:** When this mode is selected without ComPair connected, the TV will be blocked. Remove the AC power to reset the TV.

#### How to Navigate

- In SAM, select menu items with the MENU UP/DOWN keys on the remote control transmitter. The selected item will be indicated. When not all menu items fit on the screen, use the MENU UP/DOWN keys to display the next / previous menu items.
- With the MENU LEFT/RIGHT keys, it is possible to:
  - Activate the selected menu item.
  - Change the value of the selected menu item.
  - Activate the selected submenu.
- In SAM, when you press the MENU button twice, the set will switch to the normal user menus (with the SAM mode still active in the background). To return to the SAM menu press the MENU button.
- When you press the MENU key in while in a submenu, you will return to the previous menu.
- On the TV, press and hold the VOLUME DOWN and press the CHANNEL DOWN for a few seconds, to switch from SAM to SDM and reverse; or press the following key sequence on the remote control transmitter: "062596" directly followed by the MENU button to switch to SDM (do not allow the display to time out between entries while keying the sequence).

#### How to Store SAM Settings

To store the settings changed in SAM mode, leave the top level SAM menu by using the POWER button on the remote control transmitter or the television set.

#### How to Exit

Switch the set to STANDBY by pressing the mains button on the remote control transmitter or the television set.

If you turn the television set "off" by removing the mains (i.e., unplugging the television) without using the mains button, the television set will remain in SAM when mains is re-applied, and the error buffer is not cleared.

### 5.2.3 Customer Service Mode (CSM)

#### Purpose

The Customer Service Mode shows error codes and information on the TV's operation settings. The call centre can instruct the customer (by telephone) to enter CSM in order to identify the status of the set. This helps the call centre to diagnose problems and failures in the TV set before making a service call.

The CSM is a read-only mode; therefore, modifications are not possible in this mode.

#### How to Enter

To enter CSM, press the following key sequence on the remote control transmitter: "123654" (do not allow the display to time out between entries while keying the sequence).

Upon entering the Customer Service Mode, the following screen will appear:

```

1 00035 HSD21E1 1.00/S21LXN 1.00 CSM
2 CODES 0 0 0 0 0
3 OP 152 167 015 081 252 127 019
4 26PF5321/10
5 AAAAAA/B.CC
6 NOT TUNED
7 PAL
8 STEREO
9 CO 50 CL 50 BR 50
0 AVL Off
  
```

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Figure 5-5 CSM menu

#### Menu Explanation

1. Indication of the decimal value of the operation hours counter, Main/Scaler software version (see "Service Alignment Mode" for an explanation), and the service mode (CSM = Customer Service Mode).
2. Displays the last five errors detected in the error code buffer.
3. Displays the option bytes.
4. Displays the type number version of the set.
5. **aaaaaa / b.ccc** Firmware identification of the Pacific 3 and the OTC:
  - **aaaaaa** = the firmware version of the Pacific 3 (Pixel+)
  - **b.ccc** = the firmware version of the OTC (for the 1000 page TXT decoder).
6. Indicates the television is receiving an "IDENT" signal on the selected source. If no "IDENT" signal is detected, the display will read "NOT TUNED".
7. Displays the detected Colour system (e.g. PAL/NTSC).
8. Displays the detected Audio (e.g. stereo/mono).
9. Displays the picture setting information.
10. Displays the sound setting information.

#### How to Exit

To exit CSM, use one of the following methods:

- Press the MENU button twice, or POWER button on the remote control transmitter.
- Press the POWER button on the television set.

### 5.3 Problems and Solving Tips Related to CSM

#### 5.3.1 Picture Problems

**Note:** The problems described below are all related to the TV settings. The procedures used to change the value (or status) of the different settings are described.

#### Picture too Dark or too Bright

If:

- The picture improves when you press the SMART PICTURE button on the remote control transmitter, or
- The picture improves when you enter the Customer Service Mode,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select BRIGHTNESS.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.
8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

#### White Line around Picture Elements and Text

If:

The picture improves after you have pressed the SMART PICTURE button on the remote control transmitter,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select SHARPNESS.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.
8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

#### Snowy Picture

Check CSM line 6. If this line reads "Not Tuned", check the following:

- Antenna not connected. Connect the antenna.
- No antenna signal or bad antenna signal. Connect a proper antenna signal.
- The tuner is faulty (in this case line 2, the Error Buffer line, will contain error number 10). Check the tuner and replace/repair the tuner if necessary.

#### Black and White Picture

If:

- The picture improves after you have pressed the SMART PICTURE button on the remote control transmitter,

Then:

1. Press the SMART PICTURE button on the remote control transmitter repeatedly (if necessary) to choose PERSONAL picture mode.
2. Press the MENU button on the remote control transmitter. This brings up the normal user menu.
3. In the normal user menu, use the MENU UP/DOWN keys to select the PICTURE sub menu.
4. Press the MENU LEFT/RIGHT keys to enter the PICTURE sub menu.
5. Use the MENU UP/DOWN keys (if necessary) to select COLOUR.
6. Press the MENU LEFT/RIGHT keys to increase or decrease the value of the selected parameter.
7. Use the MENU UP/DOWN keys to select STORE.

8. Press the MENU RIGHT key to store the new value.
9. Press the MENU key to exit the PERSONAL picture mode.

## 5.4 Service Tools

### 5.4.1 ComPair

#### Introduction

ComPair (Computer Aided Repair) is a service tool for Philips Consumer Electronics products. ComPair is a further development on the European DST (service remote control), which allows faster and more accurate diagnostics. ComPair has three big advantages:

1. ComPair helps you to quickly get an understanding on how to repair the chassis in a short time by guiding you systematically through the repair procedures.
2. ComPair allows very detailed diagnostics (on I<sup>2</sup>C level) and is therefore capable of accurately indicating problem areas. You do not have to know anything about I<sup>2</sup>C commands yourself because ComPair takes care of this.
3. ComPair speeds up the repair time since it can automatically communicate with the chassis (when the microprocessor is working) and all repair information is directly available. When ComPair is installed together with the Force/SearchMan electronic manual of the defective chassis, schematics and PWBs are only a mouse click away.

#### Specifications

ComPair consists of a Windows based fault finding program and an interface box between PC and the (defective) product. The ComPair interface box is connected to the PC via a serial (or RS-232) cable.

For this chassis, the ComPair interface box and the TV communicate via a bi-directional service cable via the service connector(s).

The ComPair fault finding program is able to determine the problem of the defective television. ComPair can gather diagnostic information in two ways:

- Automatically (by communicating with the television): ComPair can automatically read out the contents of the entire error buffer. Diagnosis is done on I<sup>2</sup>C/UART level. ComPair can access the I<sup>2</sup>C/UART bus of the television. ComPair can send and receive I<sup>2</sup>C/UART commands to the micro controller of the television. In this way, it is possible for ComPair to communicate (read and write) to devices on the I<sup>2</sup>C/UART buses of the TV-set.
- Manually (by asking questions to you): Automatic diagnosis is only possible if the micro controller of the television is working correctly and only to a certain extent. When this is not the case, ComPair will guide you through the fault finding tree by asking you questions (e.g. *Does the screen give a picture? Click on the correct answer: YES / NO*) and showing you examples (e.g. *Measure test-point 17 and click on the correct oscillogram you see on the oscilloscope*). You can answer by clicking on a link (e.g. *text or a waveform picture*) that will bring you to the next step in the fault finding process.

By a combination of automatic diagnostics and an interactive question / answer procedure, ComPair will enable you to find most problems in a fast and effective way.

**How to Connect**

This is described in the chassis fault finding database in ComPair.

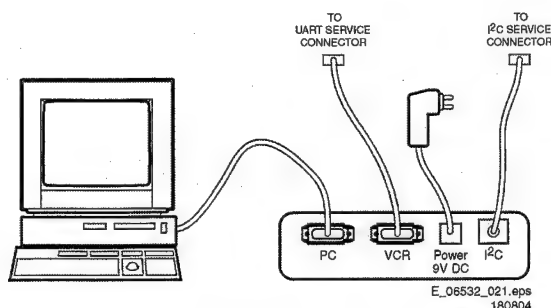


Figure 5-6 ComPair interface connection

**How to Order**

- ComPair order codes (EU/AP/LATAM):
- Starter kit ComPair32/SearchMan32 software and ComPair interface (excl. transformer): 3122 785 90450.
- ComPair interface (excl. transformer): 4822 727 21631.
- Starter kit ComPair32 software (registration version): 3122 785 60040.
- Starter kit SearchMan32 software: 3122 785 60050.
- ComPair32 CD (update): 3122 785 60070 (year 2002), 3122 785 60110 (year 2003 onwards).
- SearchMan32 CD (update): 3122 785 60080 (year 2002), 3122 785 60120 (year 2003), 3122 785 60130 (year 2004).
- ComPair firmware upgrade IC: 3122 785 90510.
- Transformer (non-UK): 4822 727 21632.
- Transformer (UK): 4822 727 21633.
- ComPair interface cable: 3122 785 90004.
- ComPair interface extension cable: 3139 131 03791.
- ComPair UART interface cable: 3122 785 90630.

**Note:** If you encounter any problems, contact your local support desk.

**5.4.2 LVDS Tool****Introduction**

This service tool (also called "ComPair Assistant 1") may help you to identify, in case the TV does not show any picture, whether the Small Signal Board (SSB) or the display of a Flat TV is defective.

Furthermore it is possible to program EPLDs with this tool (Byte blaster). Read the user manual for an explanation of this feature.

Since 2004, the LVDS output connectors in our Flat TV models are standardised (with some exceptions). With the two delivered LVDS interface cables (31p and 20p) you can cover most chassis (in special cases, an extra cable will be offered).

When operating, the tool will show a small (scaled) picture on a VGA monitor. Due to a limited memory capacity, it is not possible to increase the size when processing high-resolution LVDS signals (> 1280x960). Below this resolution, or when a DVI monitor is used, the displayed picture will be full size.

Generally this tool is intended to determine if the SSB is working or not. Thus to determine if LVDS, RGB, and sync signals are okay.

**How to Connect**

Connections are explained in the user manual, which is packed with the tool.

**Note:** To use the LVDS tool, you must have ComPair release 2004-1 (or later) on your PC (engine version >= 2.2.05). For every TV type number and screen size, one must choose the proper settings via ComPair. The ComPair file will be updated regularly with new introduced chassis information.

**How to Order**

- LVDS tool (incl. two LVDS cables: 31p and 20p): 3122 785 90671.
- LVDS tool Service Manual: 3122 785 00810.
- LVDS cable 30p (for LC4.3): 3122 785 90821 (available soon).
- LVDS cable 41p -> 31p for HD PDPs (dual -> single LVDS): 3122 785 90831 (available soon).

**5.5 Error Codes**

The error code buffer contains all errors detected since the last time the buffer was erased. The buffer is written from left to right. When an error occurs that is not yet in the error code buffer, it is displayed at the left side and all other errors shift one position to the right.

**5.5.1 How to Read the Error Buffer**

You can read the error buffer in 3 ways:

- On screen via the SAM (if you have a picture).

**Examples:**

- ERROR: 0 0 0 0 0 : No errors detected
- ERROR: 6 0 0 0 0 : Error code 6 is the last and only detected error
- ERROR: 9 6 0 0 0 : Error code 6 was detected first and error code 9 is the last detected (newest) error
- Via the blinking LED procedure (when you have no picture). See "The Blinking LED Procedure".
- Via ComPair.

**5.5.2 How to Clear the Error Buffer**

The error code buffer is cleared in the following cases:

- By using the CLEAR command in the SAM menu:
  - To enter SAM, press the following key sequence on the remote control transmitter: "062596" directly followed by the OSD/i+ button (do not allow the display to time out between entries while keying the sequence).
  - Make sure the menu item CLEAR is selected. Use the MENU UP/DOWN buttons, if necessary.
  - Press the MENU RIGHT button to clear the error buffer. The text on the right side of the "CLEAR" line will change from "CLEAR?" to "CLEARED"
- If the contents of the error buffer have not changed for 50 hours, the error buffer resets automatically.

**Note:** If you exit SAM by disconnecting the mains from the television set, the error buffer is not reset.

**5.5.3 Error Codes**

In case of non-intermittent faults, write down the errors present in the error buffer and clear the error buffer before you begin the repair. This ensures that old error codes are no longer present.

If possible, check the entire contents of the error buffer. In some situations, an error code is only the result of another error and not the actual cause of the problem (for example, a fault in the protection detection circuitry can also lead to a protection).



Table 5-1 Error code overview

Error	Error Description	Check Item	Diagram
0	No Error		
1	Mis-match of TV (Hercules) SW and Scaler SW	Software versions	N.A.
2	+12V from PSU error	PSU	A
3	Plasma I <sup>2</sup> C error (only for plasma sets)	N.A.	N.A.
4	I <sup>2</sup> C error while communicating with the Genesis Scaler	7801	B7 + B8
5	+5V protection	7752	B6
6	General I <sup>2</sup> C error; communication between ADC, analogue tuner, and/or Columbus I <sup>2</sup> C failed	1102, 7L01, 7M00	B1 + B18 + B19
7	I <sup>2</sup> C error while communicating with ADC	7L01	B18
8	I <sup>2</sup> C error while communicating with the Scaler EEPROM	7C01	B11
9	I <sup>2</sup> C error while communicating with the Hercules EEPROM (NVM for TV). <b>Remark:</b> when the Hercules EEPROM is defective, the Hercules should operate with its default values.	7207	B2
10	I <sup>2</sup> C error while communicating with the PLL tuner	1102	B1
11	I <sup>2</sup> C error while communicating with the 3D combifilter IC-7M00 (Columbus)	7M00	B19
12	I <sup>2</sup> C error while communicating with iBoard uP (only ITV sets)	N.A.	N.A.
13	I <sup>2</sup> C error while communicating with the HDMI decoder IC-7D03 (only for NAFTA and AP)	N.A.	N.A.
14	Read-write error with the Scaler SDRAM	7B01	B10
15	I <sup>2</sup> C error while communicating with the OTC	7001	T
16	I <sup>2</sup> C error while communicating with EPLD or Pacific III	7N00	B20 + B21
17	I <sup>2</sup> C error while communicating with the Digital Module (only for digital sets)	N.A.	N.A.

Example of error buffer: 12 9 6 0 0

After entering SDM, the following occurs:

- 1 long blink of 5 seconds to start the sequence,
- 12 short blinks followed by a pause of 1.5 seconds,
- 9 short blinks followed by a pause of 1.5 seconds,
- 6 short blinks followed by a pause of 1.5 seconds,
- 1 long blink of 1.5 seconds to finish the sequence,
- The sequence starts again with 12 short blinks.

## 5.7 Fault Finding and Repair Tips

### Notes:

- It is assumed that the components are mounted correctly with correct values and no bad solder joints.
- Before any fault finding actions, check if the correct options are set.

### 5.7.1 NVM Editor

In some cases, it can be handy if one directly can change the NVM contents. This can be done with the "NVM Editor" in SAM mode. With this option, single bytes can be changed.

### Caution:

- **Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!**
- **Do not change the Scaler NVM settings, as this will hamper the DVI / HDMI functionality of the TV set!**
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

Table 5-2 NVM editor overview

	Hex	Dec	Description
.ADR	0x000A	10	Existing value
.VAL	0x0000	0	New value
.Store	Store?		

## 5.6 The Blinking LED Procedure

Using this procedure, you can make the contents of the error buffer visible via the front LED. This is especially useful when there is no picture.

When the SDM is entered, the front LED will blink the contents of the error-buffer:

- The LED blinks with as many pulses as the error code number, followed by a time period of 1.5 seconds, in which the LED is off.
- Then this sequence is repeated.

Any RC5 command terminates this sequence.

Table 5-3 NVM Default values (option bit settings through NVM Editor in SAM Mode)

Byte Nr.	Bit	Feature/Mode	Description	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
Byte 0 174(dec)	0	QSS (LSB)	Mode of quasi split sound amplifier	1
	1	FMI	Connection of output of QSS amplifier	1
	2	HCO	EHT tracking mode	0
	3	HP2	Synchronization of OSD/Text display	1
	4	FSL	Forced slicing level for vertical sync	1
	5	TFR	DC transfer ratio of luminance signal	1
	6	OSVE	Black current measuring in overscan	0
	7	MVK (MSB)	(For Future Usage, as defined by software)	0
		Total Dec Values		59
Byte 1 175(dec)		Total Hex Values		3B
	0	PSE	PSE	0
	1	OPC	OPC	0
	2	PRIS	PRIS	0
	3	CONTINUOUS FACTORY	Continuous factory mode	1
	4	WHITE PATTERN ON	Last colour pattern status in factory mode	0
	5	SDM MODE	Service default mode on/off	0
	6	SAM MODE	Service Align mode on/off	0
	7	SVMA	Scavem On / Off	0
Byte 2 176(dec)		Total Dec Values		8
		Total Hex Values		08
	0	MUTE STATUS	Mute status	0
	1	TUNER AUTO MODE	Auto mode	1
	2	CABLE MODE	Cable/Antenna mode	0
	3	LAST POWER MODE	Last power status of the set	1
	4	CHILD LOCK MODE	Child lock enabled	0
	5	SURF MODE	Surf mode on/off	0
	6	FACTORY MODE	Factory mode on	1
Byte 3 177(dec)	7	PSNS	For PAL colour enhancement in ES4	1
		Total Dec Values		202
		Total Hex Values		CA
	0	RADIO/TV MODE	Radio mode or TV mode	0
	1	WAKE-UP MODE	WAKE-UP MODE	0
	2	HOTEL MODE	TV in Hotel mode	0
	3	HOTEL KBD LOCK	Keyboard locked	0
	4	HBL	HBL	0
	5	BLS	Blue stretch mode	1
Byte 4 178(dec)	6	SL	SL	0
	7	CFA0	Comb filter On/Off	0
		Total Dec Values		32
		Total Hex Values		20
	0	Signal Strength	Signal Strength Switch in MK2	0
	1	LPG	LPG	0
	2	DVD TRAY LOCK	Lock/Unlock DVD tray	0
	3	SCRSAVER MODE	Screen saver mode	1
	4	BKS	Black Stretch Mode	1
Byte 5 179(dec)	5	BSD	Black Stretch Depth	1
	6	CRA0	Coring on SVM	1
	7	PIP QSS	PIP QSS	0
		Total Dec Values		120
		Total Hex Values		78
	0	FFI	Fast Filter	0
	1	NNR	No red reduction during blue stretch	1
	2	MUS	NTSC matrix	1
	3	GAM	Gamma control	1
Byte 5 179(dec)	4	CBS	Control sequence of beam current limiting	0
	5	LLB	Low level of beam current limiter	0
	6	DSA	Dynamic skin tone angle area	1
	7	DSK	Dynamic skin tone angle on/ off	0
		Total Dec Values		78
		Total Hex Values		4E

Byte Nr.	Bit	Feature/Mode	Description	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
Byte 6 180(dec)	0	LTI status	LTI last status	0
	1	Inc_Life_Time	Inc_Life_Time	0
	2	PC_Mode	PC_Mode	0
	3	HD_Mode	HD_Mode	0
	4	Tact_Switch	Tact_Switch	0
	5	Set_in_Special_Stby	Set_in_Special_Stby	0
	6	Hotel_OSDDisplay	Hotel_OSDDisplay	0
	7	Hotel_MonitorOut	Hotel_MonitorOut	0
		Total Dec Values		0
Byte 7 181(dec)		Total Hex Values		00
	0	Hotel_IconMode	Hotel_IconMode	0
	1	DBE	DBE	1
	2	SD	SD	0
	3	Set_in_PC_Sleep_Mode	Set_in_PC_Sleep_Mode	0
	4	Reserved	Reserved	1
	5	Reserved	Reserved	0
	6	Reserved	Reserved	0
	7	Reserved	Reserved	0
		Total Dec Values		18
		Total Hex Values		12

### 5.7.2 Load Default NVM Values

In case a blank NVM is placed or when the NVM content is corrupted, default values can be downloaded into the NVM. (For empty NVM replacement, short the SDM with a jumper and apply the mains voltage. Remember to remove the jumper after the reload is completed). After the default values are downloaded, it will be possible to start up and to start aligning the TV set. This is no longer initiated automatically; to initiate the download the following action has to be performed:

1. Switch "off" the TV set by disconnecting the AC Power plug.
2. Short circuit an SDM jumper (keep short-circuited).
3. Press P+ or Ch+ on the local keyboard (and keep it pressed).
4. Switch on the TV set via the AC Power plug.
5. Keep pressing the P+/Ch+ button until the set has started up and the SDM is shown.

Alternative method:

1. Go to SAM.
2. Select NVM Editor (not SC NVM Editor).
3. Select ADR (address) to 1 (dec).
4. Change the VAL (value) to 170 (dec).
5. Store the value.
6. Disconnect the mains plug and wait for a few seconds.
7. Reconnect the mains plug and wait until the set goes into its standby mode (red LED lights up).
8. Restart the set.

### 5.7.3 Flash New Scaler Software

When you need to flash new scaler software, follow the instructions in ComPair. Make sure you put the set in one of the Service Modes, SDM/SAM/CSM, before you start flashing. This reduces the risk of the set hanging during the flashing procedure.

### 5.7.4 Tuner and IF

#### **No Picture in RF Mode, but there is a Noise Raster**

1. Check whether picture is present in AV. If not, go to Video processing troubleshooting section.
2. If present, check if the Option settings are correct.
3. Check if all the supply voltages are present (3.3/5/8/12/33 V).
4. Check if the I<sup>2</sup>C lines are working correctly (3.3 V).

5. Manually store a known channel and check if there is IF output at Tuner pin 11.
6. Check the tuning DC voltage at pin 2 of the Tuner. The DC voltage should vary according to the frequency/channel being chosen.
7. If the tuning voltage is OK, check the tuner output, pin 11.
8. If it has no output, the Tuner may have a defect. Change the Tuner.

#### **Sound in Picture Problem for L' System (rolling horizontal lines)**

1. Check whether AGC L' in SAM mode is set to 0.
2. If yes, align the set to correct value.

#### **Required System is not Selected Correctly**

Check whether a Service jumper (#4204 & 4205, 0805 size) is present. If yes, remove it.

### 5.7.5 Video Processing

#### **No Power**

1. Check +12 V and 3V3 at position 1J02.
2. If no supply, first check the connector 1J02.
3. If the connector is correct, check the power supply board.

#### **Power Supply is Correct, but no Green LED**

1. Check if the connectors 1K00 are properly inserted.
2. If they are inserted correctly, check if the 3V3 is present.

#### **No Picture Display (blank screen with correct sound output)**

1. Check whether the user menu is visible.
2. If the user menu is OK, activate teletext mode.
3. If teletext is OK, the problem is in the ADC (B18) & Columbus 3D combfilter (B19), if present (depending on model, see also paragraph "Teletext Path" in chapter 9).
4. If the user menu is not visible, check if the LCD panel backlight is ON.
5. If the backlight is OFF, the problem is in the power supply board or LCD panel. Also check pin 12 (LAMP\_ON\_OFF) of 1J02. It should be HIGH during normal operation.

**Note:** For fault finding purposes, it is important to know the following: in Pixel Plus and Digital Crystal Clear models, which have an ADC (B18) and Columbus 3D combfilter (B19), the digital input of the scaler is used for the digital video path (Hercules output), whereas the analogue RGB input (analogue

input of the scaler) is only used for teletext. This means that no mixed mode (video plus teletext simultaneously) is possible. If there is sound and teletext, but no video and user menu (blank screen), the digital path (Hercules - ADC - Columbus - Scaler) is faulty. If there is sound but no teletext, the back-end part (Scaler - LCD panel) is faulty. In Crystal Clear models, which do not have an ADC and Columbus, the RGB path (analogue input of scaler) is used for both video and teletext.

#### **No TV, but PC is Present**

1. Check if Hsync\_SDTV and Vsync\_SDTV are present at pin 1 & pin13 of 7E03.
2. If they are present, check teletext output.
3. If there is no teletext output, the IC TDA150xx may be defect.

### **5.7.6 Power Supply**

#### **Check Fuse**

The power supply (various models are used) contains one fuse near the AC input connector X002.

1. Check with power supply in "off" state by means of ohmic measurement.
2. Fuse X102 may open in case of severe lightning strikes and/or failures in the power supply.
3. Check the standby signal at pin 10 of X200. ON is HIGH, OFF is LOW. During standby mode only the 3V3 is present at pin 10.

#### **Protections Concept on Power Supply Board (two models)**

1. **12 V output (pin 8 of X200):** Short-circuit protected by 2.5 A fuse X610. Over-voltage protection when output voltage is more than 40% above nominal value.
2. **Vaudio output (+18 or +24 V, depending on power supply model used); (pin 1 of X200):** Short-circuit proof (+18 V version has 2.5 A fuse X660). Over voltage protection when output voltage is more than 40% above nominal value.
3. **3V3STBY output (pin 3&4 of X200):** Short-circuit proof with auto-restart. Over voltage protection when output voltage is more than 40% above nominal value.
4. **24 V output (for inverter X520 & X530):** Short-circuit proof with auto-restart. Over voltage protection when output voltage is more than 40% above nominal value.

#### **Standby Mode**

1. Apply a 12 ohm load resistor of sufficient power rating to all outputs mentioned above (+12 V, +18/ 24 V, +3V3 and +24 V). Connect the STBY pin (pin 10 of X200) to logical "L" (low), i.e. to GND.
2. Over an input voltage range of 90 V<sub>AC</sub> to 276 V<sub>AC</sub> only the +3V3 STBY output shall be up.

#### **Normal Mode:**

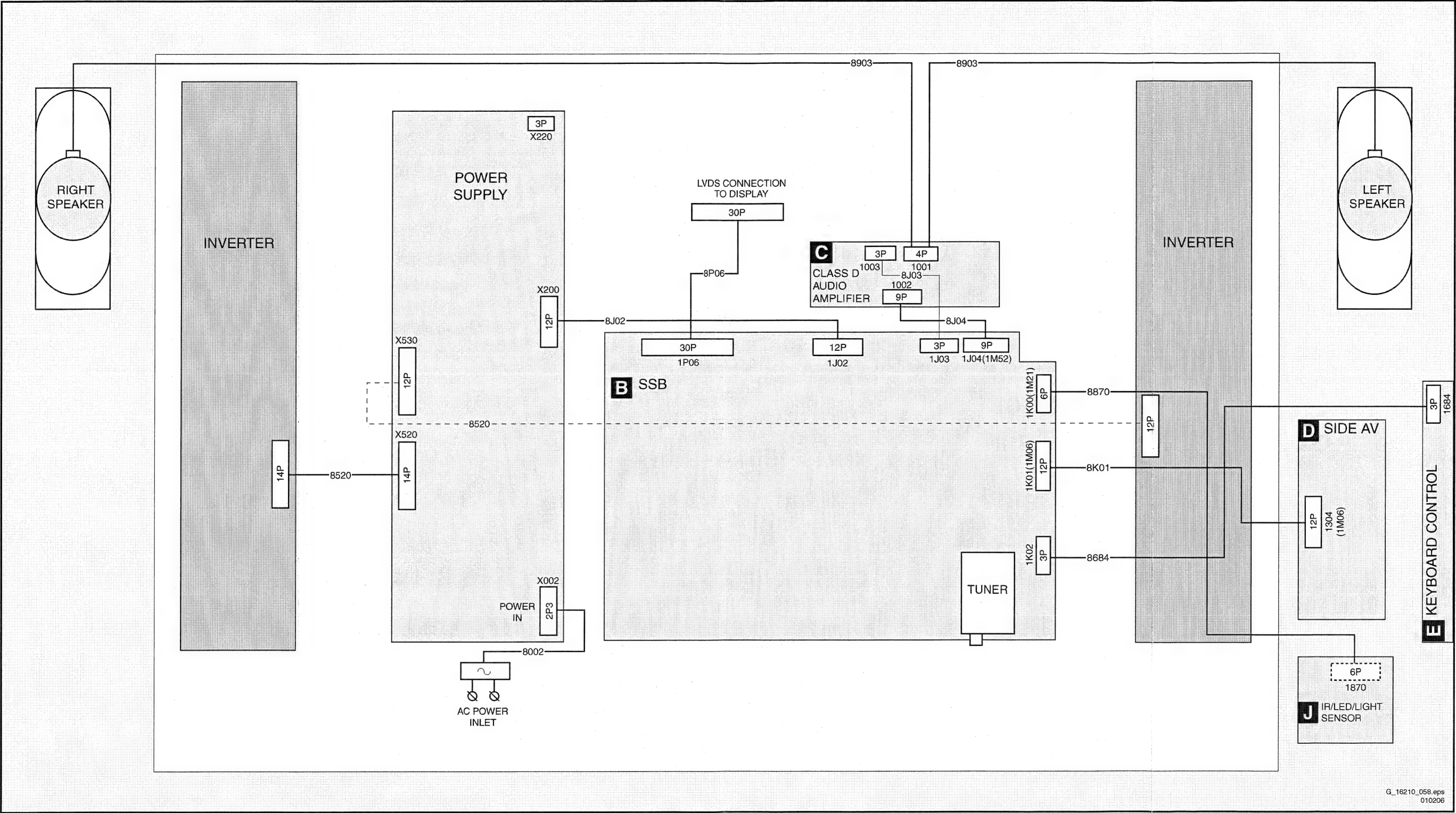
1. Apply a 12 ohm load resistor of sufficient power rating to all outputs mentioned above (+12 V, +18/ 24 V, +3V3 and +24 V). Connect the STBY pin (pin 10 of X200) to logical "H" (high), i.e. to the +3V3 STBY output via a 2,2 k pull up resistor.
2. Over an input voltage range of 90 V<sub>AC</sub> to 276 V<sub>AC</sub> all outputs shall be up. The voltage on the +3V3 STBY output shall be 3.3 V over the entire input voltage range. The voltage on the big 400 V capacitor on the power supply should also be 400 V  $\pm$  10%.

**Personal Notes:**



6. Block Diagrams, Test Point Overviews, and Waveforms

Wiring Diagram 26" & 32"  
WIRING 26"- 32"





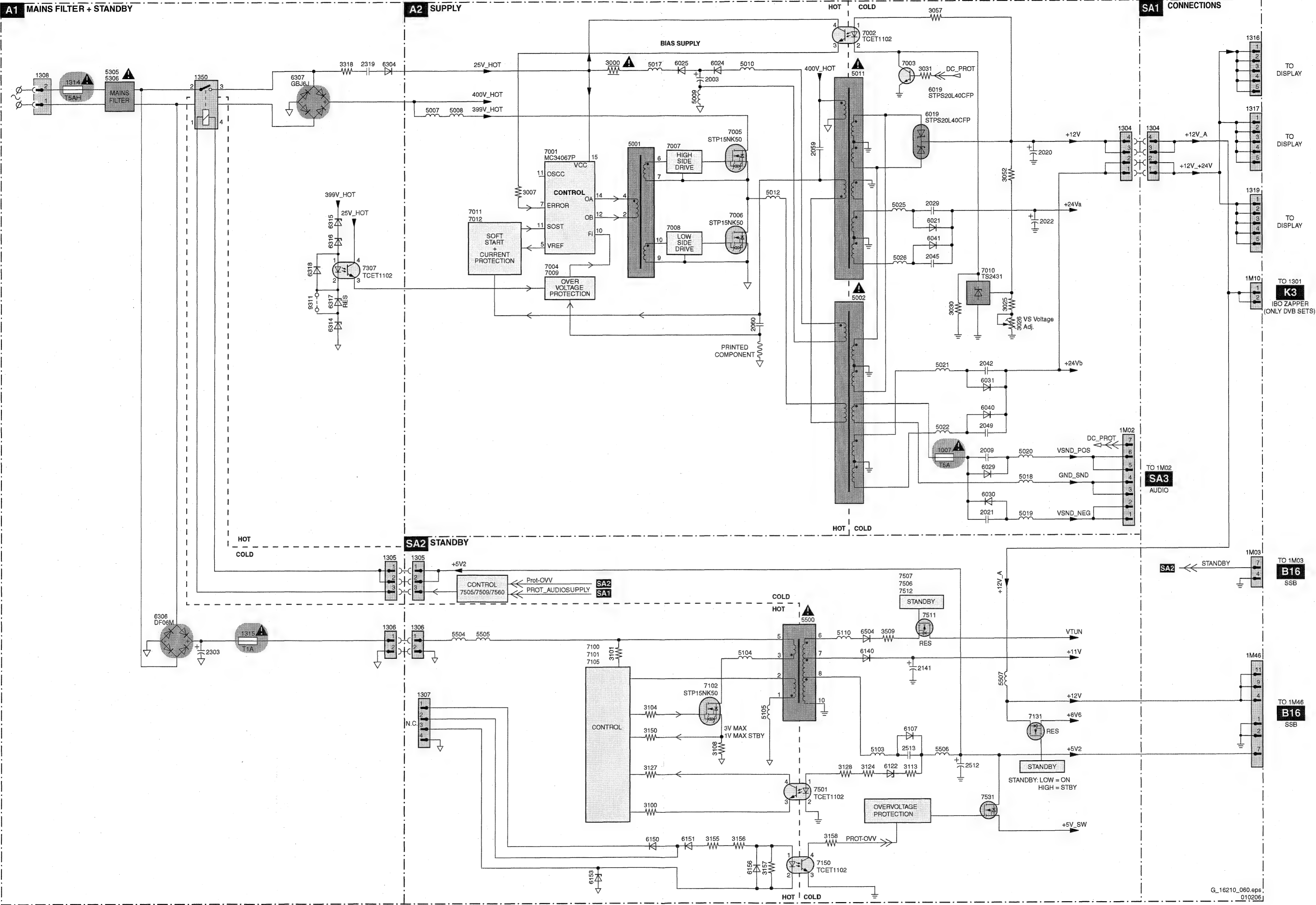






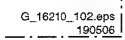
Block Diagram Supply 37"

SUPPLY 37"

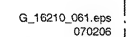




**A1 MAINS FILTER + STANDBY PART A**

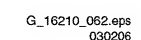


## VIDEO





## AUDIO

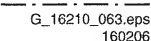




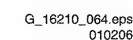




**I<sup>2</sup>C**



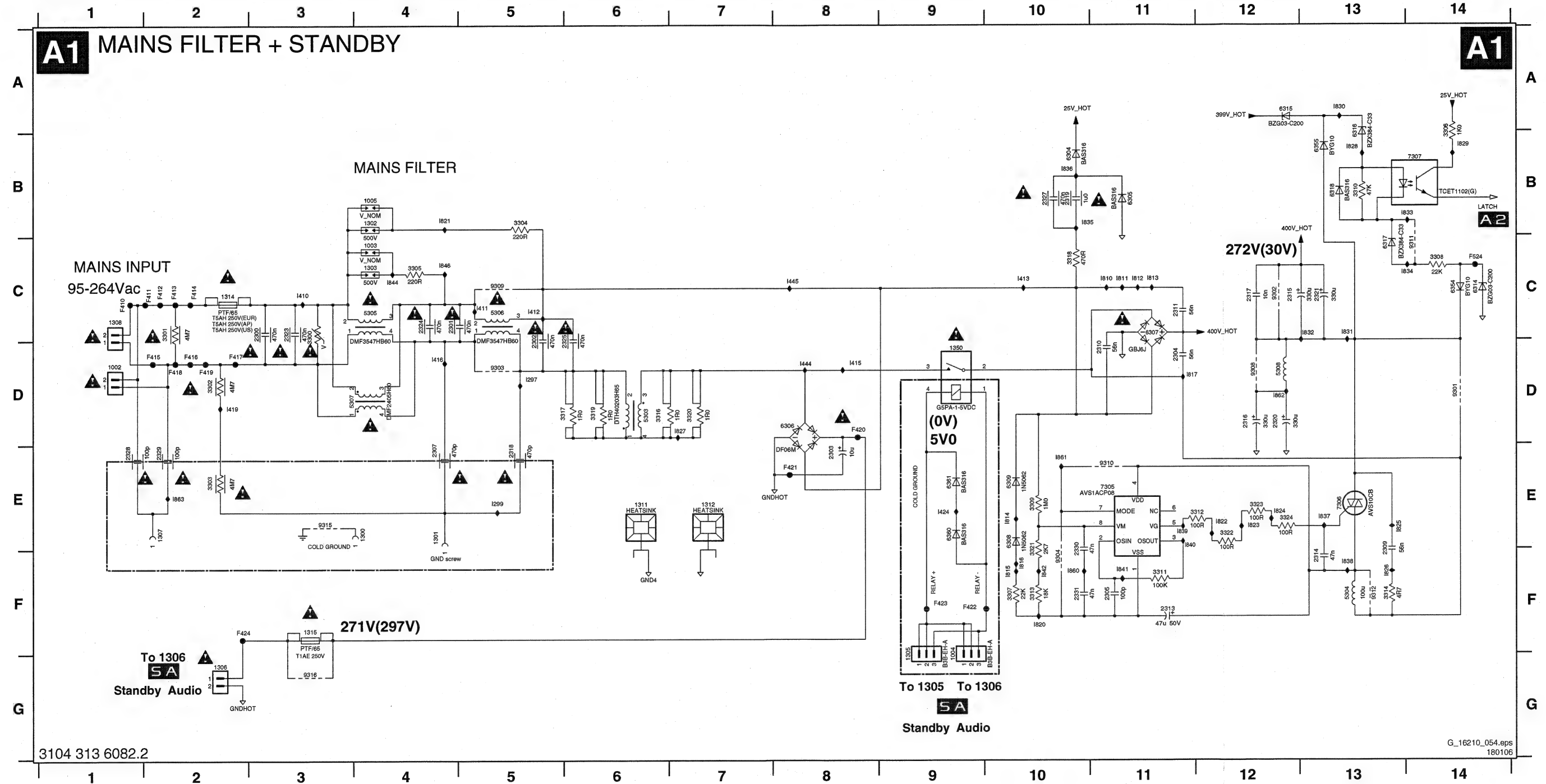
## SUPPLY LINE OVERVIEW



## 7. Circuit Diagrams and PWB Layouts

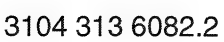
## LCD Supply (37"): Mains Filter &amp; Standby

1002 D1	1302 B4	1311 E6	2301 C4	2309 F13	2316 D12	2323 C3	2330 F10	3304 B5	3310 B13	3317 D6	3323 E12	5307 D3	6308 E10	6318 B13	7306 E13	9308 D12	9316 G3	F415 D2	F421 E8	I299 E5	I416 D4	I811 C11	I817 D11	I825 E13	I831 C13	I837 E13	I844 C4
1003 C4	1303 C4	1312 E7	2302 D5	2310 D11	2317 C12	2324 C4	2331 F10	3305 C4	3311 F11	3318 C10	3324 E12	5308 D12	6309 E10	6354 C14	7307 B14	9309 C5	F410 C1	F416 D2	F422 F9	I410 C3	I419 D2	I812 C11	I820 F10	I826 F13	I832 C13	I838 F13	I846 C4
1004 G8	1305 G9	1314 C2	2303 E8	2311 C11	2318 E5	2325 D6	2330 C3	3306 B14	3312 E12	3319 D6	5303 D6	6304 B10	6314 C14	6355 B13	7301 D14	9310 E11	F411 C2	F417 D2	F423 F9	I411 C5	I424 E9	I813 C11	I821 B4	I827 D7	I833 B14	I839 E11	I860 F10
1005 B4	1306 G2	1315 F3	2304 D11	2313 F11	2319 B10	2327 B10	2330 C2	3307 F10	3313 F10	3320 D7	5304 F13	6305 B11	6315 A12	6360 E9	7302 C12	9311 C14	F412 C2	F418 D2	F424 F2	I412 C5	I444 D8	I814 E10	I822 E12	I828 B13	I834 C14	I840 E11	I861 E10
1300 E4	1307 E2	1350 D9	2305 F11	2314 F13	2320 D12	2328 E1	3302 D2	3308 C14	3314 F13	3321 F10	5305 C4	6306 D8	6316 B13	6361 E9	7303 D5	9312 F13	F413 C2	F419 D2	F524 C14	I413 C10	I445 C8	I815 F10	I823 E12	I829 B14	I835 B10	I841 F11	I862 D12
1301 E4	1308 C1	2300 C3	2307 E4	2315 C12	2321 C13	2329 E2	3303 E2	3309 E10	3316 D6	3322 E12	5306 C5	6307 C11	6317 C13	7305 E11	9304 F10	9315 E3	F414 C2	F420 D8	I297 D5	I415 D8	I810 C11	I816 F10	I824 E12	I830 A13	I836 B10	I842 F10	I863 E2





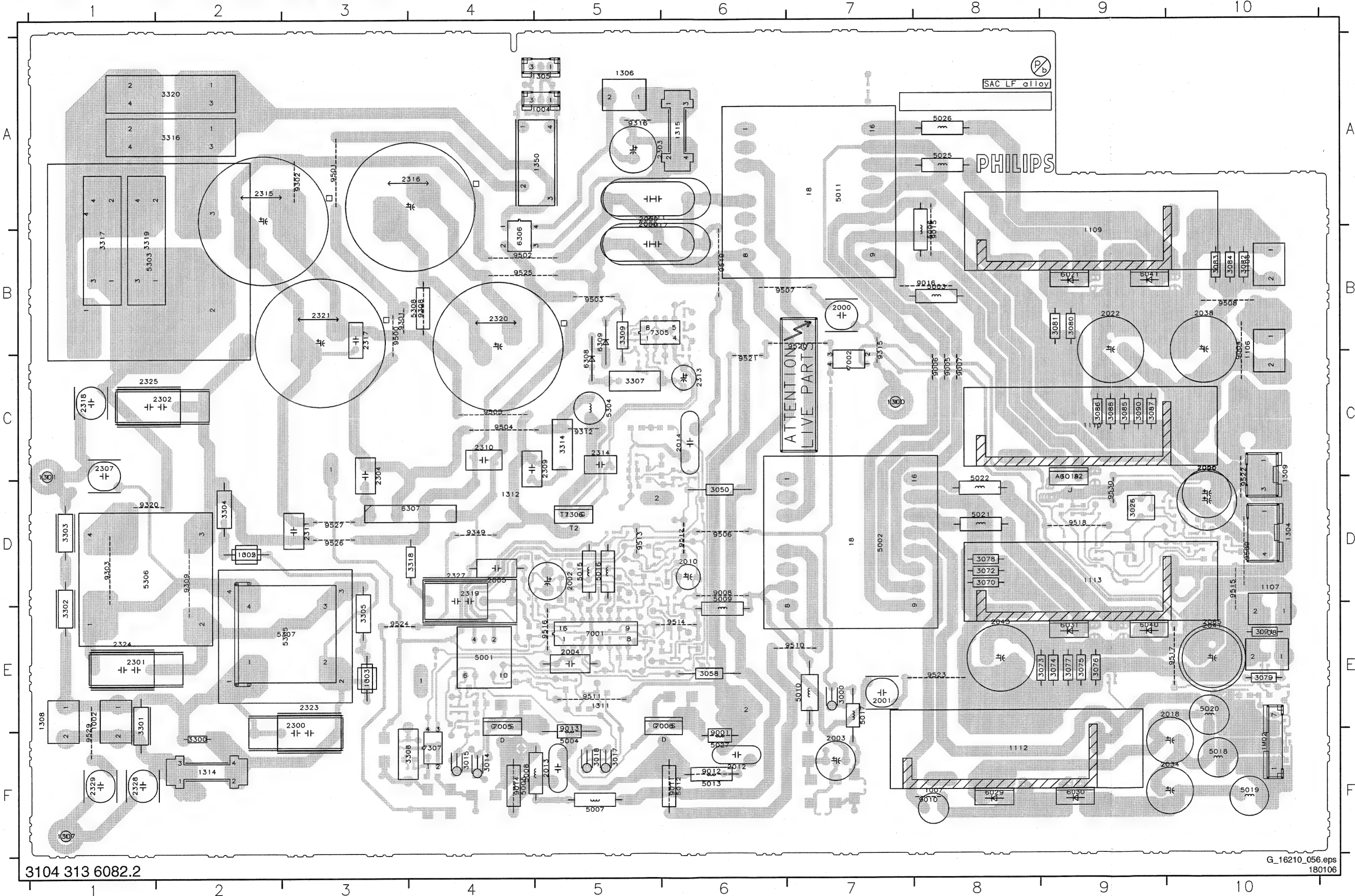
## A2 SUPPLY



1007 G11 3035 E6  
 1105 G7 9036 H4  
 1106 H7 3037 C12  
 1107 H7 3038 D13  
 1108 I7 3039 H3  
 1109 H9 3040 D13  
 1110 I10 3041 E13  
 1112 H10 3042 G3  
 1113 I9 3043 D1  
 1138 H8 3044 F5  
 1309 H6 3045 G2  
 1M02 H13 3046 F5  
 2000 A9 3047 H2  
 2001 G9 3048 D1  
 2002 B5 3049 E3  
 2003 A3 3050 E2  
 2004 C2 3051 F3  
 2005 D1 3052 C12  
 2006 C2 3054 F4  
 2007 E1 3055 I5  
 2008 G3 3056 I3  
 2009 H1 3057 C12  
 2010 H1 3058 E2  
 2011 E8 3059 C1  
 2012 E8 3060 H4  
 2013 C8 3061 E7  
 2014 F6 3062 C7  
 2015 F5 3063 C12  
 2016 D5 3065 B6  
 2017 C8 3068 H13  
 2018 H12 3069 H10  
 2019 D11 3070 A10  
 2021 H11 3071 A10  
 2022 E11 3072 A10  
 2023 B12 3073 A11  
 2024 D12 3074 A11  
 2025 D13 3075 A11  
 2026 G3 3076 A11  
 2027 E2 3077 A11  
 2028 C10 3078 A12  
 2029 E10 3079 A12  
 2030 H10 3080 A10  
 2031 C12 3081 A10  
 2032 D13 3082 A10  
 2033 D13 3083 A11  
 2034 H12 3084 A11  
 2035 E7 3085 A11  
 2036 C7 3086 A11  
 2037 H4 3087 A11  
 2038 H11 3088 A12  
 2039 B10 3089 H5  
 2040 C12 3090 D12  
 2041 G12 3091 D12  
 2042 G12 3099 A13  
 2043 G12 5001 C6  
 2044 D11 5002 F9  
 2045 E10 5003 C10  
 2046 I13 5004 C8  
 2047 I4 5005 C8  
 2048 I4 5006 D10  
 2049 G12 5007 A8  
 2050 F4 5008 B8  
 2051 H12 5009 F5  
 2052 D7 5010 A4  
 2053 D5 5011 D9  
 2054 C8 5012 D8  
 2055 D7 5013 D8  
 2056 B7 5015 C6  
 2057 C6 5016 D5  
 2058 C1 5017 A2  
 2059 G9 5018 H12  
 2060 E8 5019 I12  
 2061 C2 5020 H2  
 2062 D1 5021 H1  
 2063 F5 5022 G11  
 2064 D12 5025 E10  
 2065 G12 5026 E10  
 2066 D11 5027 E8  
 3000 A1 6002 D7  
 3001 F5 6003 C6  
 3002 D1 6004 D6  
 3003 C1 6005 D5  
 3004 D1 6006 I4  
 3005 C3 6007 C7  
 3006 E2 6008 F7  
 3008 E1 6010 G4  
 3009 E1 6011 F4  
 3009 E1 6012 E7  
 3010 H1 6013 C7  
 3011 H1 6014 H5  
 3012 F3 6015 G5  
 3013 G4 6017 I4  
 3014 C7 6018 E5  
 3015 C7 6019 C10  
 3016 C7 6020 E4  
 3017 D7 6021 E10  
 3018 E7 6022 E10  
 3019 E7 6023 E13  
 3020 E7 6024 A4  
 3021 G5 6025 A3  
 3022 C11 6026 H3  
 3023 D12 6027 C7  
 3024 D12 6028 E7  
 3025 E12 6029 H11  
 3026 E12 6030 H11  
 3027 G2 6031 G12  
 3028 G4 6032 A2  
 3029 C7 6033 E2  
 3030 E11 6035 C5  
 3031 C11 6036 C5  
 3032 C10 6038 D2  
 3033 H10 6040 E12  
 3034 E13 6041 E10

Layout LCD Supply (37") (Top Side)

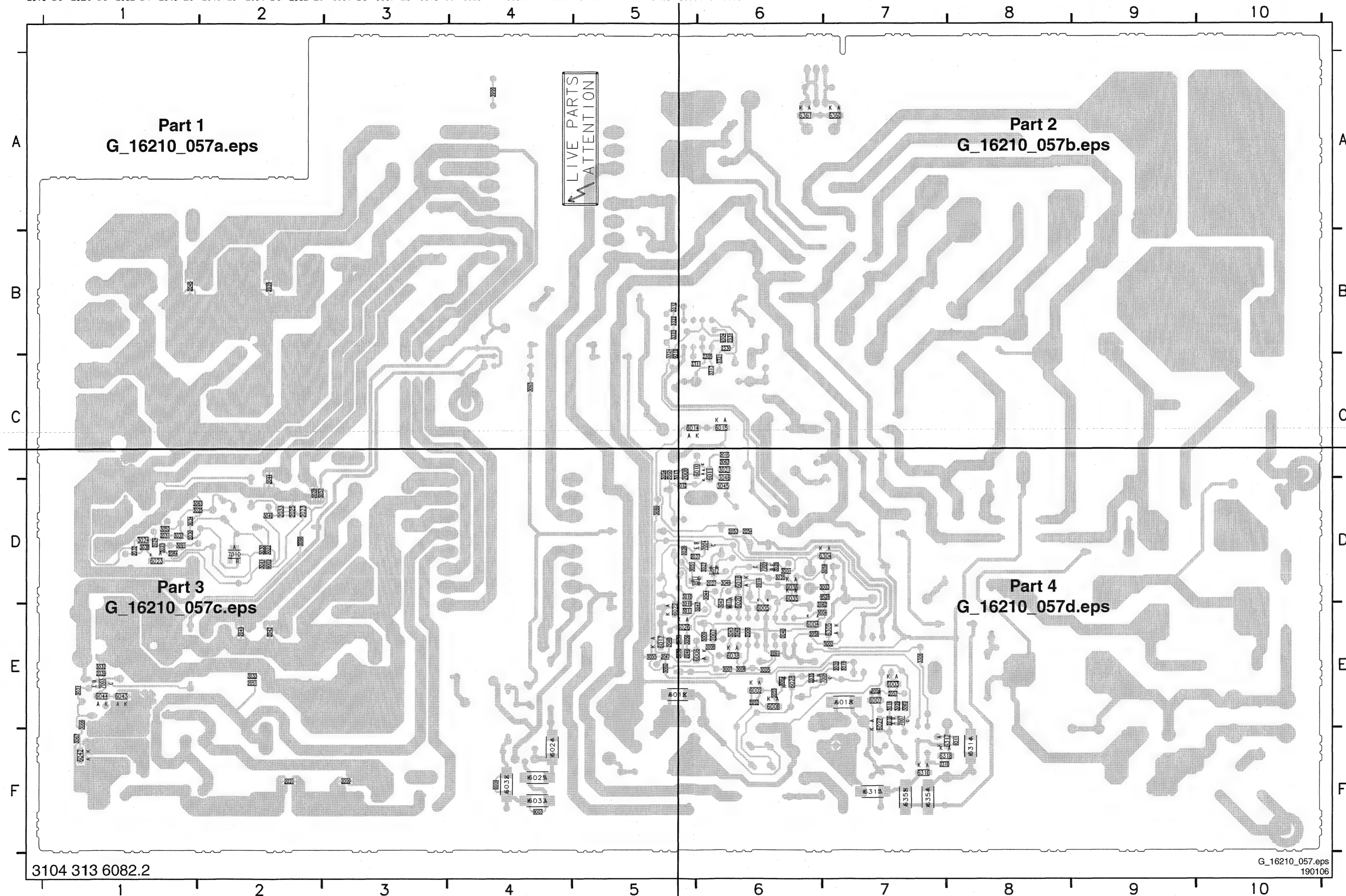
1002 E1	1108 E10	1303 E3	1312 D3	2003 F7	2017 A5	2059 A5	2304 C3	2316 A3	2325 C2	3018 F5	3074 E9	3082 B10	3300 E2	3309 B5	5002 D8	5010 E7	5019 F10	5304 C5	6030 F9	7001 E5	9004 C10	9013 F5	9309 D2	9502 B5	9510 E7	9518 D9	9526 D3
1003 E3	1109 B8	1304 D10	1314 F2	2004 E5	2018 E10	2060 A5	2307 C1	2317 B3	2327 E4	3026 D9	3075 E9	3083 B10	3301 E2	3314 C5	5003 B8	5011 A7	5020 E10	5305 E2	6031 E9	7002 B7	9005 C8	9014 F4	9312 C5	9503 B5	9511 E5	9519 B6	9527 D3
1004 A5	1110 C8	1305 A5	1315 A6	2005 D4	2020 D10	2065 E10	2309 C4	2318 C1	2328 F1	3050 D6	3076 E9	3084 B10	3302 E1	3316 A1	5004 E5	5012 F5	5021 D8	5306 D1	6040 E9	7005 F4	9006 C8	9015 B8	9315 B7	9504 C4	9512 D6	9520 B6	9529 F1
1005 D2	1112 F8	1306 A5	1350 A5	2010 D6	2022 B9	2066 C10	2310 C4	2319 D4	2329 F1	3058 E6	3077 E9	3085 C9	3303 D1	3317 B1	5005 F4	5013 F6	5022 C8	5307 D3	6041 B9	7006 F5	9007 C8	9016 B8	9316 A5	9505 C4	9513 D5	9521 B6	9530 D9
1007 F8	1113 C7	1307 F1	1M02 F10	2011 A5	2034 F10	2300 E3	2311 D2	2320 B5	3000 E7	3070 D8	3078 D8	3086 C9	3304 D2	3318 D4	5006 B7	5015 D5	5025 A8	5308 B4	6306 B4	7305 B5	9008 D6	9301 B4	9320 D2	9506 D6	9514 E6	9522 C10	
1105 B10	1300 C7	1308 E1	2000 B7	2012 F6	2038 B10	2301 E2	2313 C6	2321 B3	3014 F4	3071 E10	3079 E10	3087 C9	3305 E3	3319 B2	5007 F5	5016 D5	5026 A8	6019 D9	6307 D3	7306 D5	9010 F7	9302 A3	9349 D4	9507 B6	9515 D10	9523 E8	
1106 B10	1301 C1	1309 C10	2001 E7	2013 F5	2041 E10	2302 C2	2314 C5	2323 E3	3015 F4	3072 D8	3080 B9	3088 C9	3307 C5	3320 A1	5008 F4	5017 E7	5027 E6	6021 B9	6308 B5	7307 F4	9011 F6	9303 D1	9500 B3	9508 B10	9516 E5	9524 E3	
1107 D10	1302 D2	1311 E4	2002 D5	2014 C6	2043 E8	2303 A5	2315 A2	2324 E2	3017 F5	3073 E8	3081 B9	3090 C9	3308 F3	5001 E4	5009 E6	5018 F10	5303 A1	6029 F8	6309 B5	9001 F6	9012 F6	9308 B4	9501 A3	9509 D10	9517 E10	9525 B4	





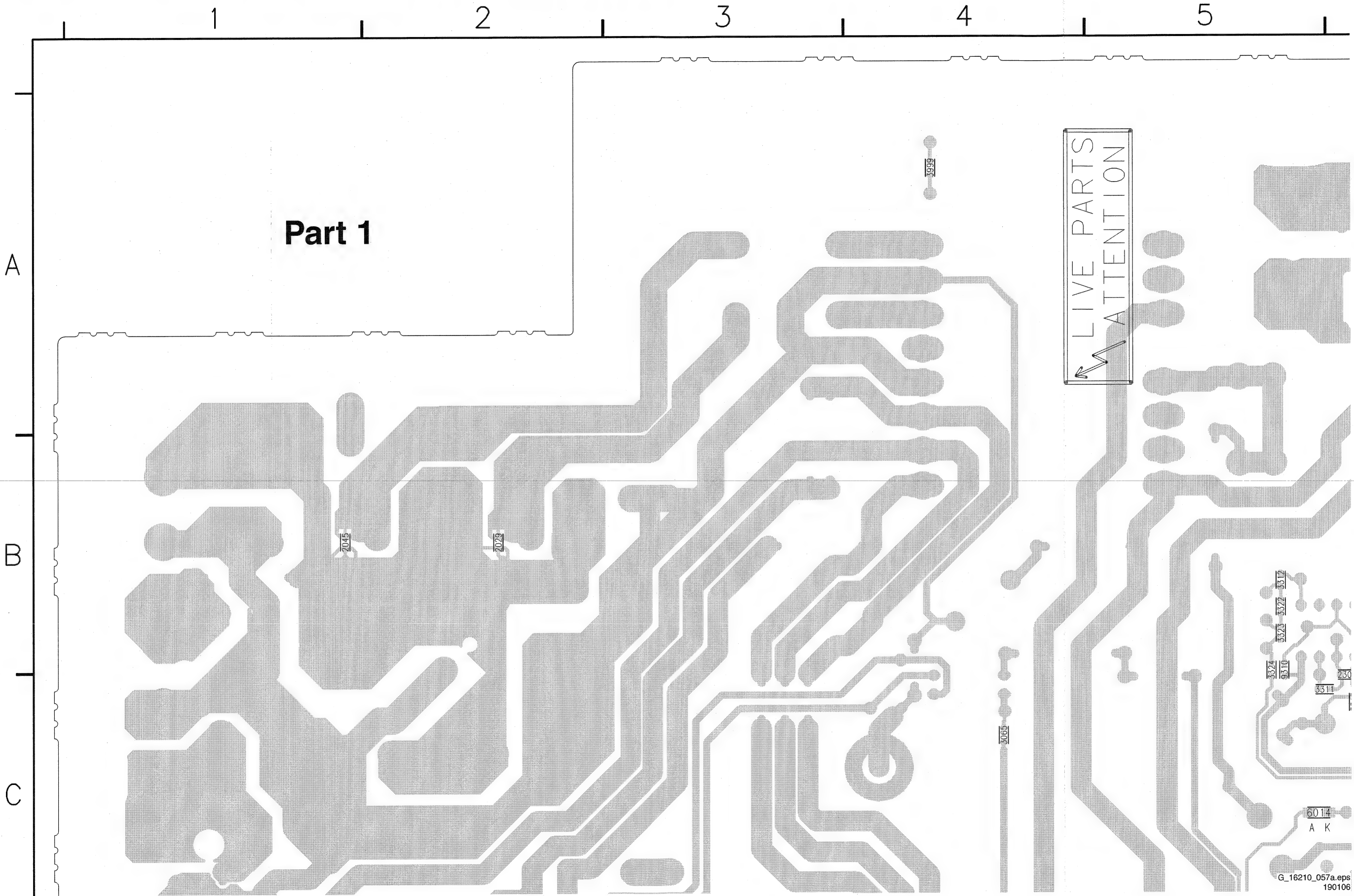
## Layout LCD Supply (37") (Overview Bottom Side)

2006 E6	2019 E5	2027 D6	2033 D2	2042 E2	2049 E2	2055 E6	2063 C6	3002 E7	3008 E6	3016 E7	3024 D1	3031 E1	3037 D1	3043 E6	3049 D6	3057 D2	3065 C4	3306 E7	3322 B5	6004 E6	6011 C6	6018 D6	6026 E5	6036 D6	6305 E7	6354 F7	7007 E7	9002 D2	9311 F8
2007 E6	2021 F2	2028 D2	2035 E6	2044 D2	2050 C5	2056 E7	2064 D1	3003 D7	3009 E6	3019 E7	3025 D1	3032 E1	3038 D1	3044 D6	3051 D5	3059 D7	3066 E1	3310 F7	3323 B5	6005 E6	6012 E5	6020 D6	6027 E7	6038 E6	6314 F8	6355 F7	7008 E7	9003 F4	9528 D7
2008 C5	2023 D2	2029 B2	2036 E7	2045 B1	2051 E2	2057 E7	2305 C6	3004 E6	3010 D5	3020 E7	3027 D6	3033 E2	3039 E5	3045 D6	3052 D1	3060 E5	3067 F1	3311 C5	3324 B5	6006 E5	6013 E7	6022 E5	6028 E6	6042 F1	6315 F7	6360 A7	7009 D6	9009 F4	
2009 F3	2024 D1	2030 D1	2037 D5	2046 E5	2052 E6	2058 E6	2330 B6	3005 E6	3011 E5	3021 C6	3028 D6	3034 D1	3040 D2	3046 C6	3054 C5	3061 E6	3068 D2	3312 B5	3399 A4	6007 E7	6014 C5	6023 D1	6032 F4	6043 E1	6316 F7	6361 A6	7010 D2	9017 E6	
2015 C6	2025 D2	2031 D1	2039 E1	2047 E5	2053 D6	2061 E6	2331 B6	3006 E6	3012 D5	3022 D2	3029 E7	3035 D6	3041 D2	3047 E6	3055 E5	3062 E7	3089 D5	3313 C6	6002 E6	6008 E6	6015 C6	6024 F4	6033 F4	6044 E1	6317 F8	7003 E1	7011 D5	9304 B6	
2016 D6	2026 D5	2032 D1	2040 E6	2048 E5	2054 D6	2062 E6	3001 D6	3007 E6	3013 C5	3023 D1	3030 D2	3036 E5	3042 E6	3048 E6	3056 E5	3063 D1	3091 D1	3321 C6	6003 E7	6010 C6	6017 E5	6025 F4	6035 E6	6304 D7	6318 F7	7004 D6	7012 D6	9310 B5	





Layout PSU LCD Supply (37") (Part 1 Bottom Side)



10

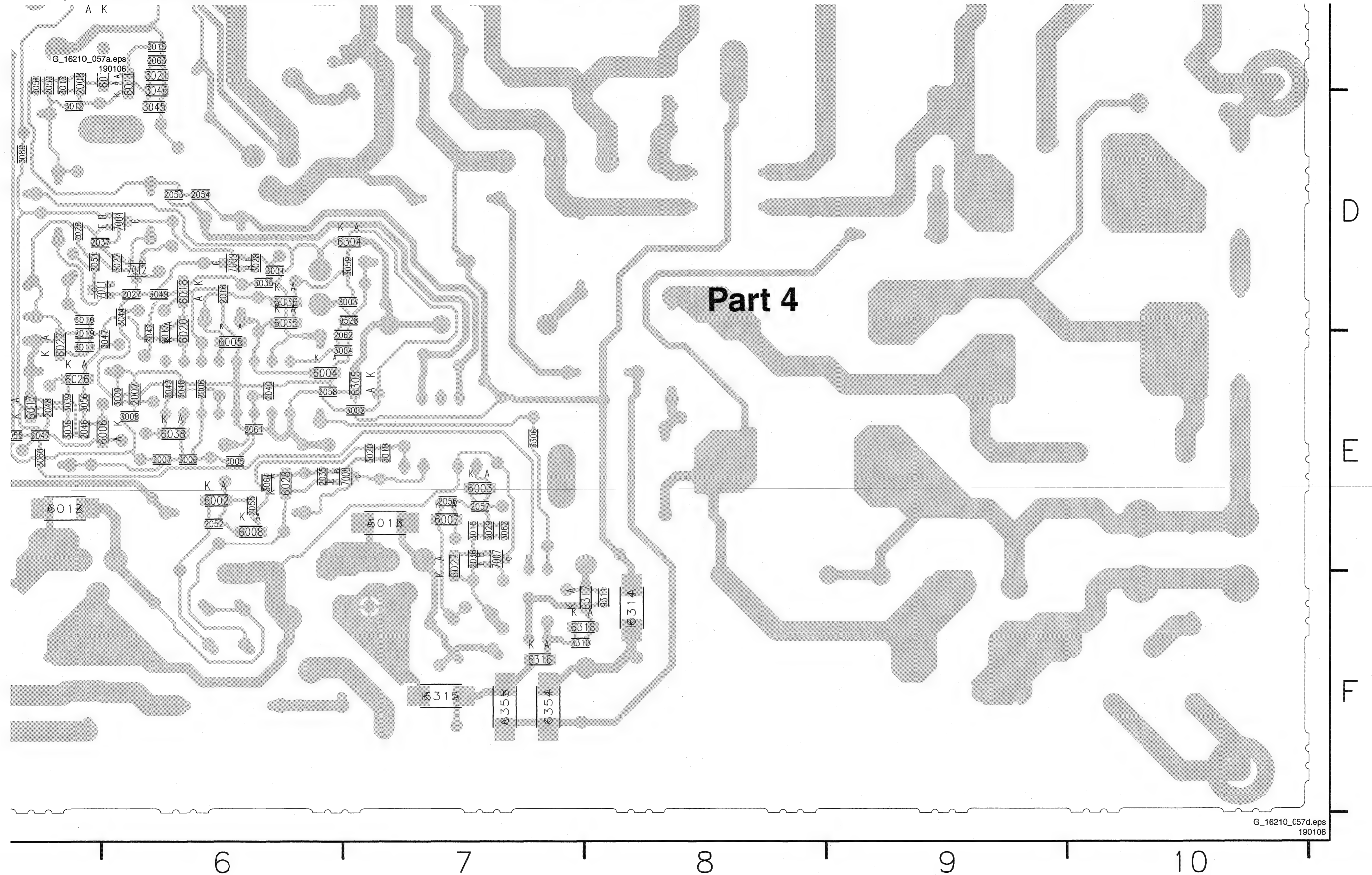




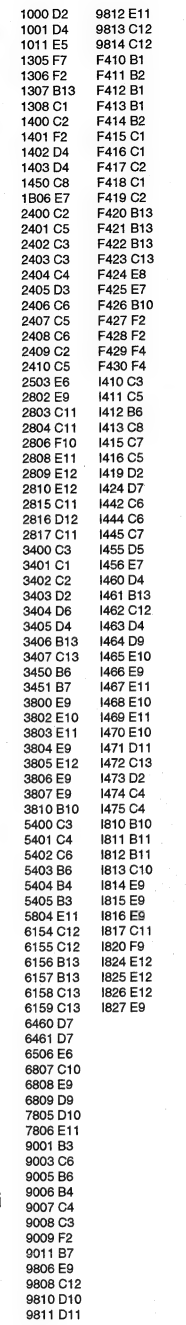




## A K

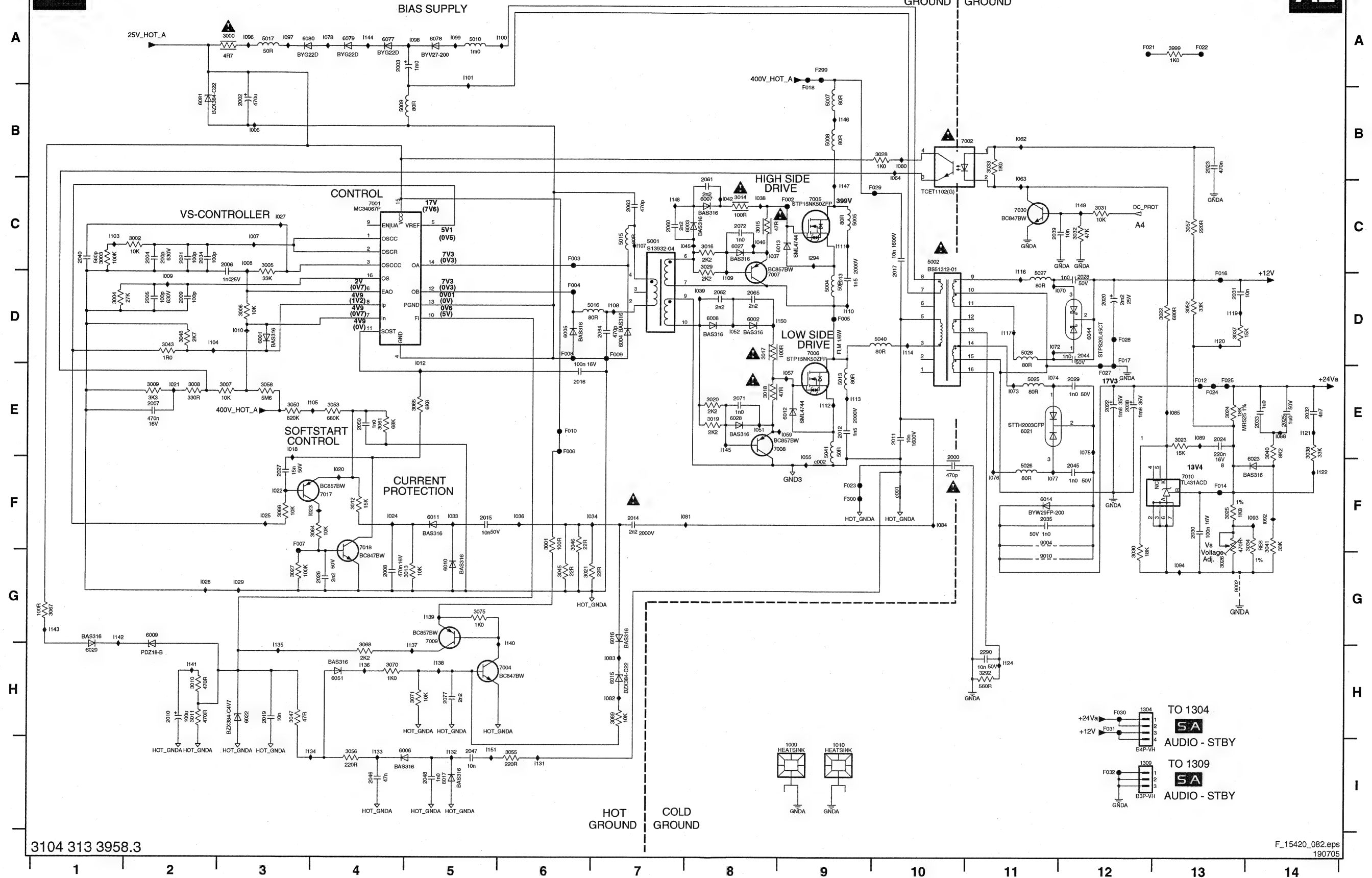


## A1 MAINS FILTER + STANDBY PART A



## LCD Supply (42"): Supply A

## A2 SUPPLY PART A

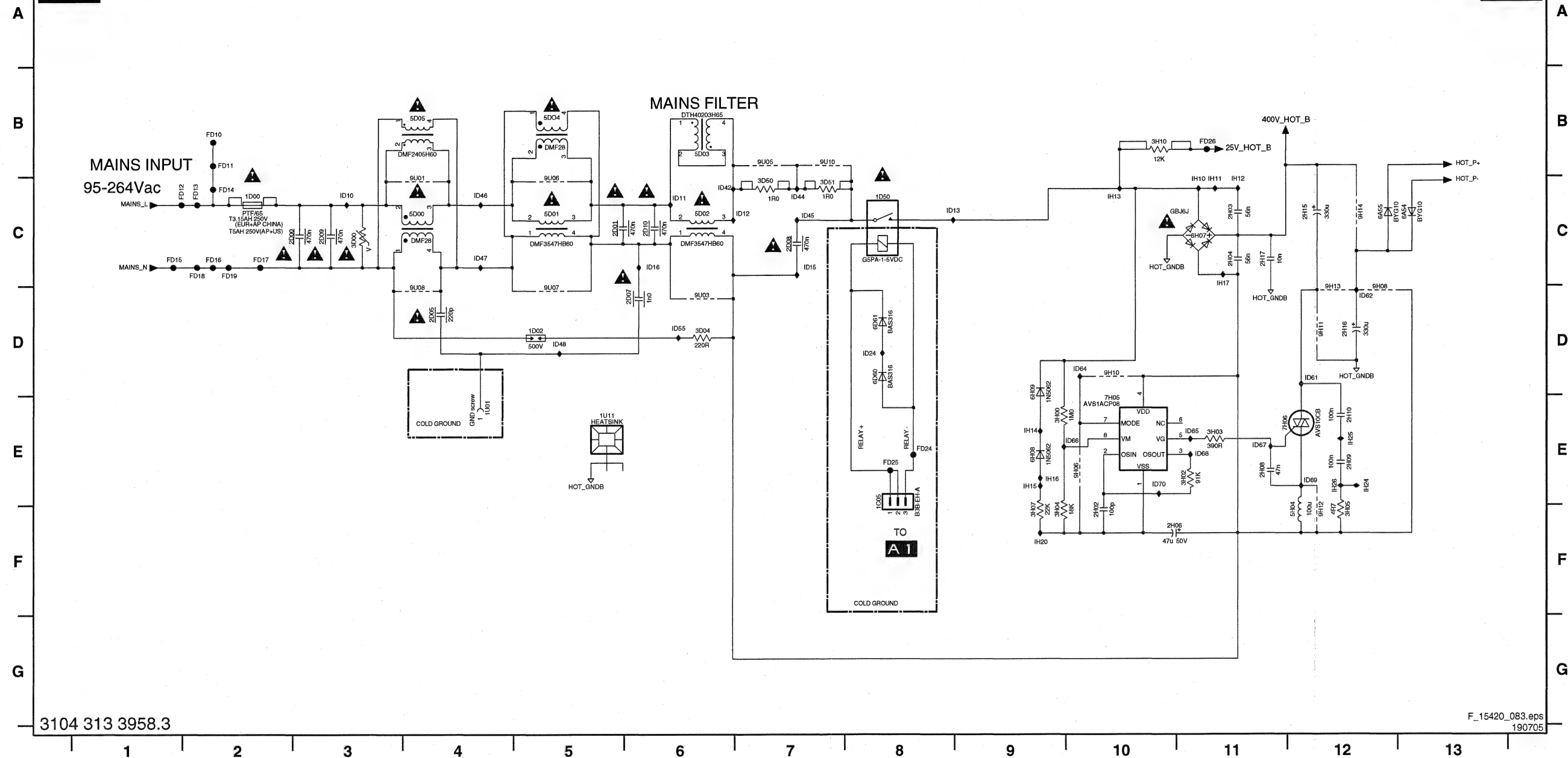


1009 I9  
1010 I9  
1304 H  
1309 I1  
2000 F  
2002 B  
2003 A  
2004 C  
2005 D  
2006 C  
2007 E  
2008 G  
2009 D  
2010 H  
2011 E  
2012 E  
2013 D  
2014 F  
2015 F  
2016 E  
2017 C  
2019 H  
2020 D  
2021 C  
2022 E  
2023 B  
2024 E  
2025 E  
2026 G  
2027 F  
2028 D  
2029 E  
2030 F  
2031 D  
2032 E  
2033 E  
2034 C  
2035 F  
2038 E  
2039 C  
2040 C  
2044 D  
2045 F  
2046 I4  
2047 I5  
2048 I5  
2050 E  
2060 C  
2061 C1  
2062 D1  
2063 C  
2064 D  
2065 D  
2071 E1  
2072 C1  
2077 H  
2290 H  
3000 A  
3001 F  
3002 C  
3003 C  
3004 D  
3005 C  
3006 D  
3007 E  
3008 E  
3009 E  
3010 H  
3011 H  
3012 F  
3013 G  
3014 C1  
3015 C1  
3016 C1  
3017 D1  
3018 E1  
3019 E1  
3020 E1  
3021 G  
3022 D  
3023 E  
3024 E  
3025 F  
3026 G  
3027 G  
3028 B  
3029 C  
3030 G  
3031 C  
3032 C  
3033 B  
3034 F  
3037 D  
3038 E  
3040 E  
3041 F  
3043 D  
3045 G  
3046 F  
3047 H  
3048 D  
3050 E  
3052 D  
3053 E  
3055 I6  
3056 I4  
3057 C  
3058 E  
3061 E  
3064 F  
3065 E  
3066 F  
3067 G  
3068 H

## LCD Supply (42"): Mains Filter + Stdby B

## A3 MAINS FILTER + STANDBY PART B

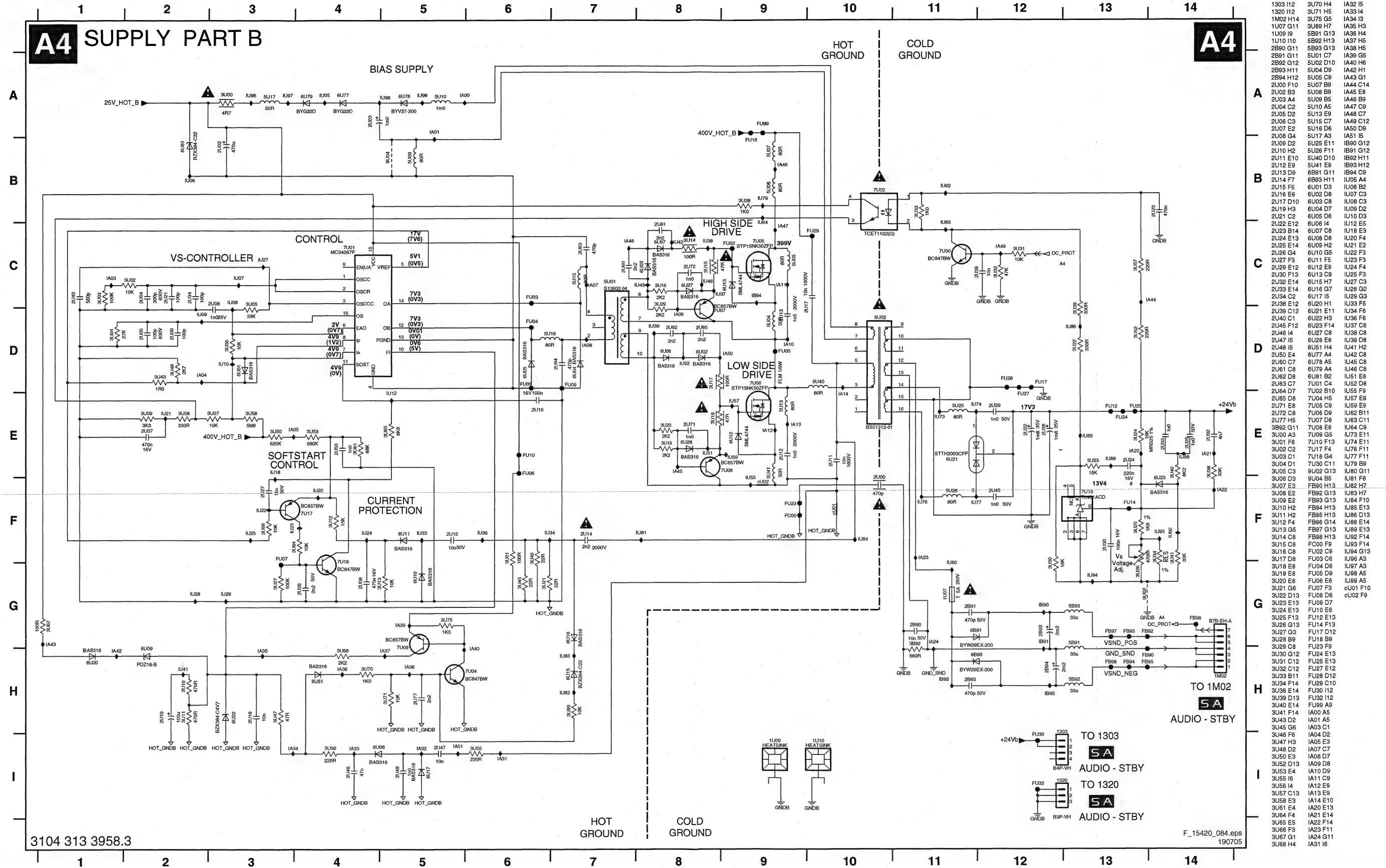
A3



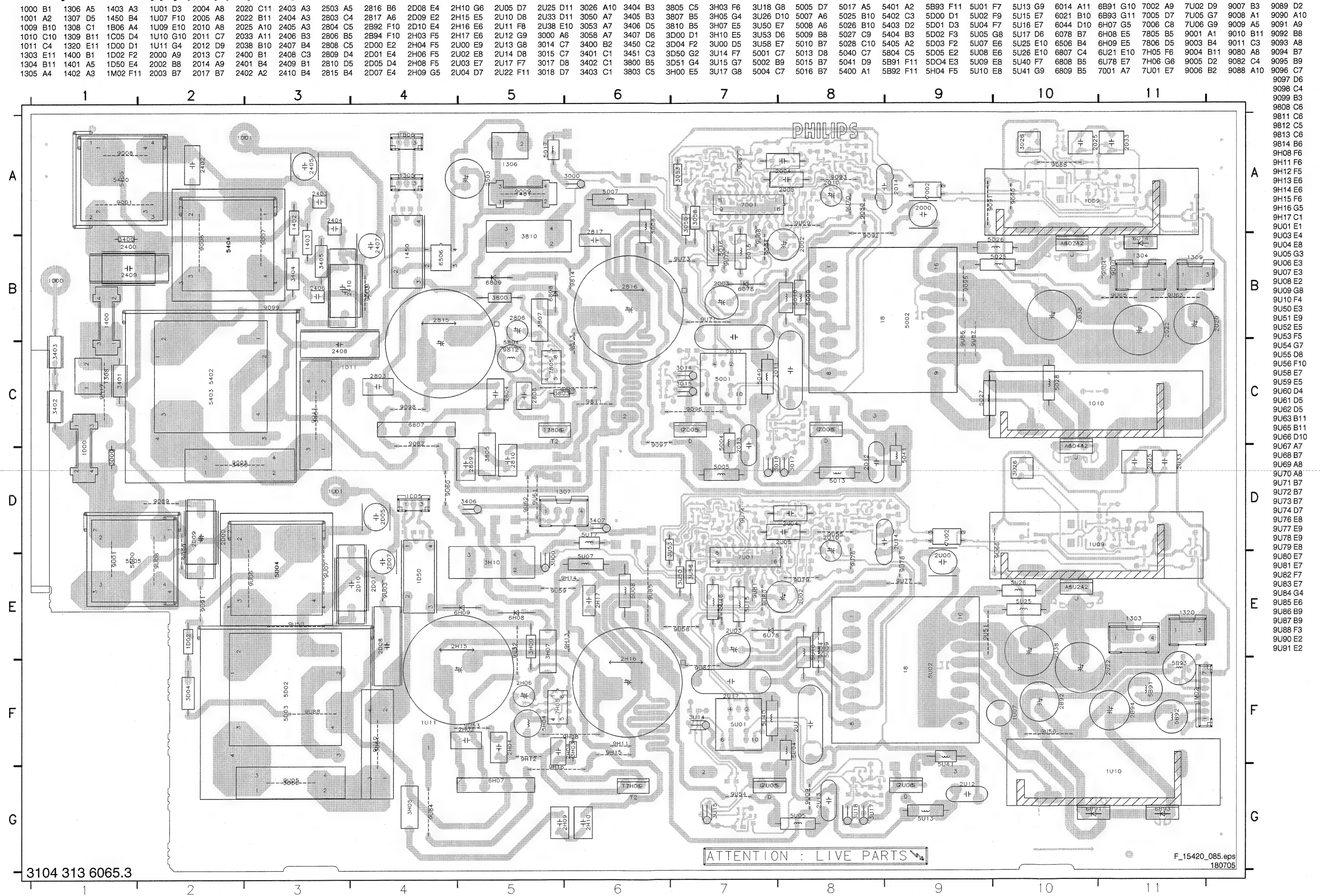
1C05 E8  
1D00 C2  
1D02 D5  
1D03 D5  
1D50 C8  
1U01 E4  
1U11 E5  
2D00 C2  
2D01 C5  
2D03 C4  
2D04 C5  
2D05 D4  
2D06 C8  
2D07 D6  
2D08 C7  
2D09 C3  
2D10 C6  
2H02 F10  
2H03 C11  
2H04 C11  
2H06 F10  
2H08 E11  
2H09 E12  
2H10 E12  
2H15 C12  
2H16 D12  
2H17 C11  
3D00 C3  
3D04 D6  
3D05 D5  
3D50 C7  
3D51 C7  
3H00 E9  
3H02 E11  
3H03 E11  
3H04 F9  
3H05 F12  
3H07 F9  
3H10 B10  
5D00 C4  
5D01 C5  
5D02 C6  
5D03 B6  
5D05 B4  
5D04 B5  
5H04 F12  
6A54 C13  
6A55 C12  
6D80 D8  
6D81 D8  
6H07 C11  
6H08 E9  
6H09 D9  
7H05 E10  
7H06 E11  
9H06 E10  
9H08 D12  
9H10 D10  
9H11 D12  
9H12 F12  
9H13 D12  
9H14 C12  
9U01 C4  
9U03 D6  
9U05 B7  
9U06 C5  
9U07 D5  
9U08 D4  
9U10 B7  
FD10 B2  
FD11 B2  
FD12 C1  
FD13 C2  
FD14 C2  
FD15 C1  
FD16 C2  
FD17 C2  
FD18 C2  
FD19 C2  
FD24 E8  
FD25 E8  
FD26 B11  
ID10 C3  
ID11 C8  
ID12 C7  
ID13 C8  
ID15 C7  
ID16 C6  
ID24 D8  
ID42 C6  
ID44 C7  
ID46 C4  
ID47 C4  
ID48 D5  
ID55 D6  
ID61 D12  
ID62 D12  
ID63 D5  
ID64 D10  
ID65 E11  
ID66 E10  
ID67 E11  
ID68 E11  
ID69 E10  
ID70 E12  
ID71 C11  
IH10 C11  
IH11 C11  
IH12 C11  
IH13 C10  
IH14 E9  
IH15 E9  
IH16 E9  
IH17 C11  
IH20 F9  
IH24 E12  
IH25 E12  
IH26 E12



## LCD Supply (42"): Supply B

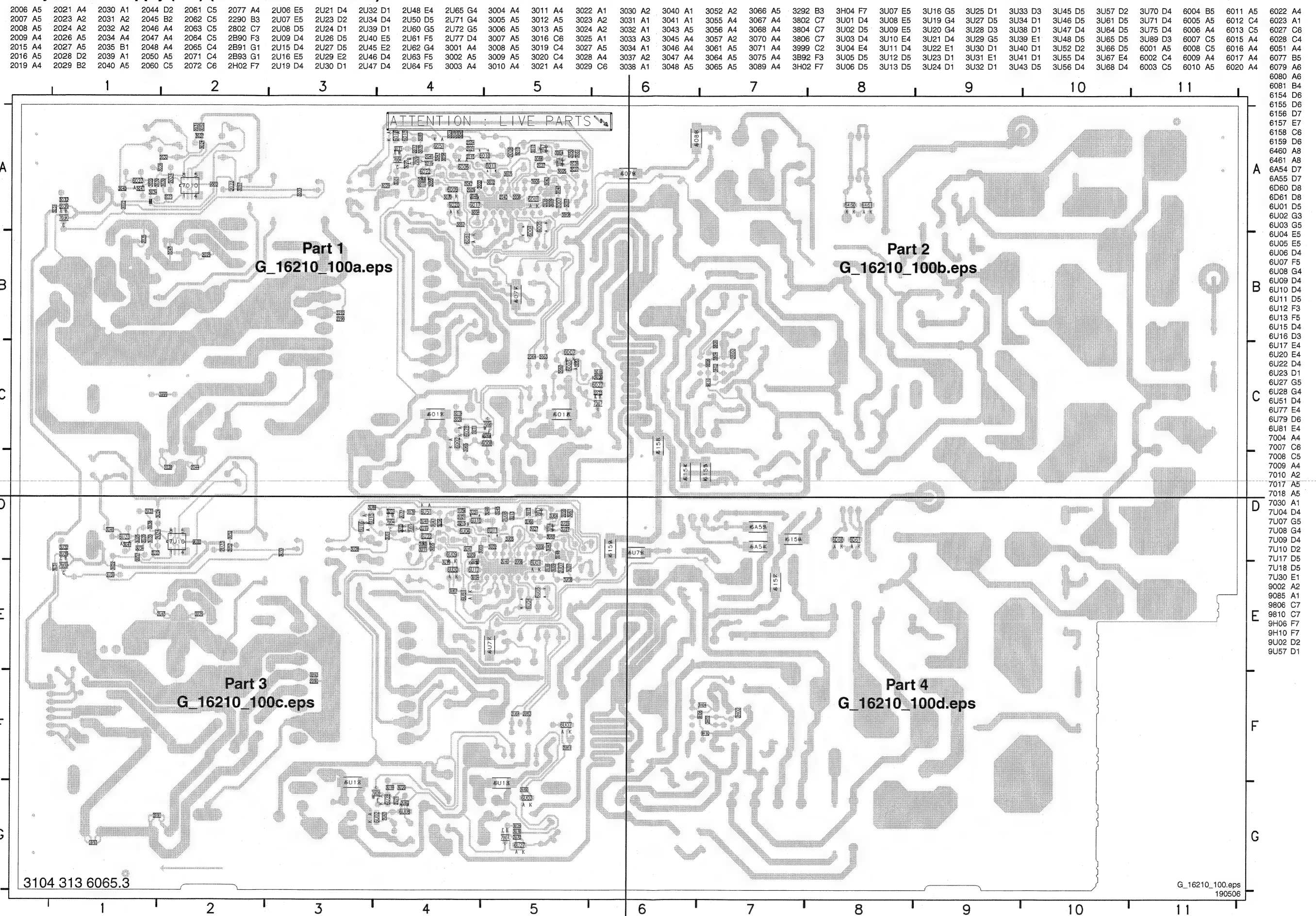


## Layout LCD Supply (42") (Top Side)



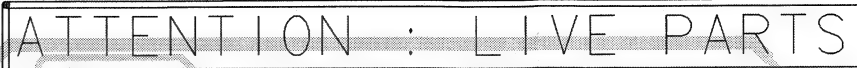


## Layout LCD Supply (42") (Overview Bottom Side)



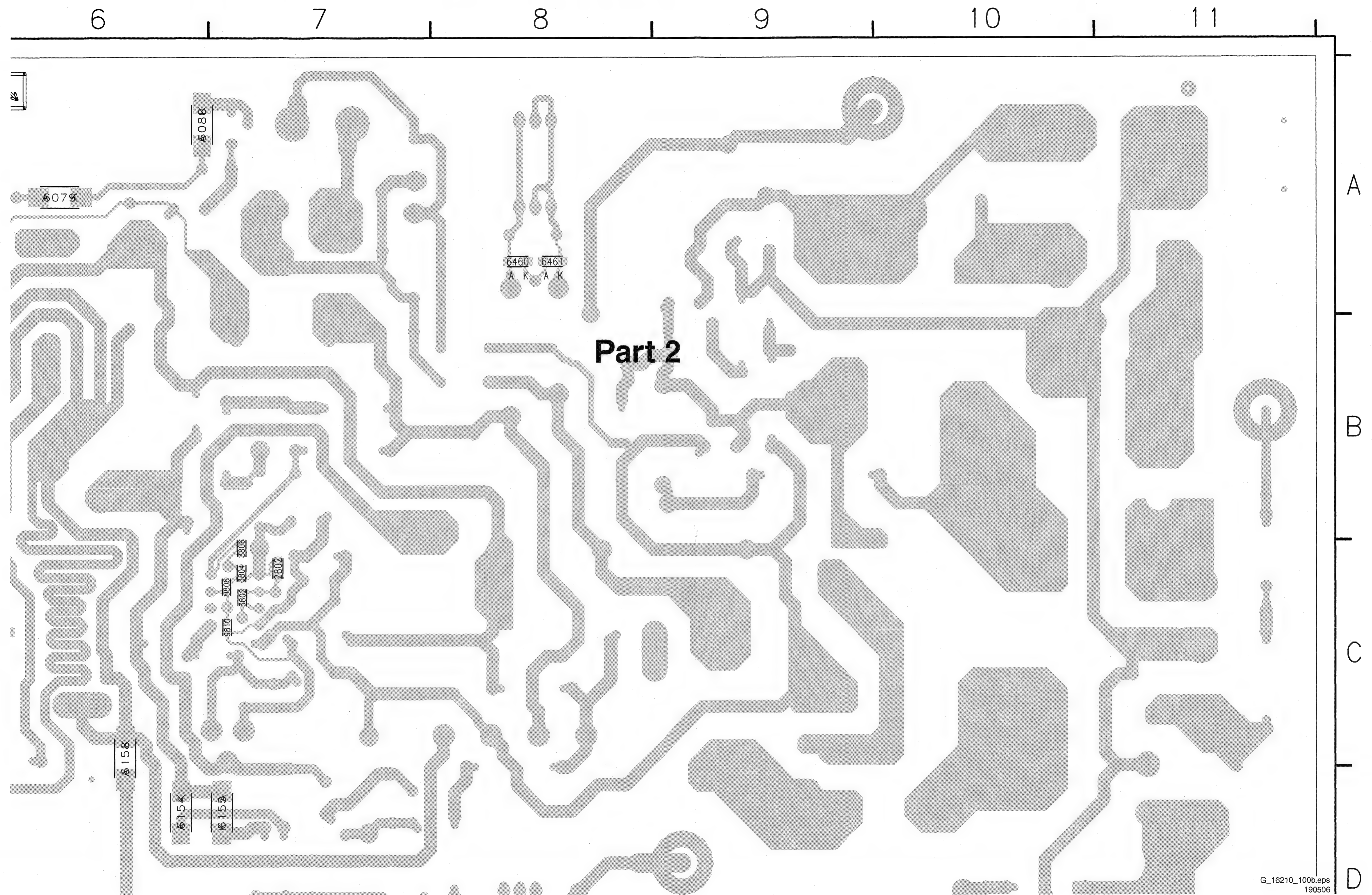


## 6

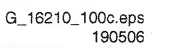




## Layout LCD Supply (42") (Part 2 Bottom Side)

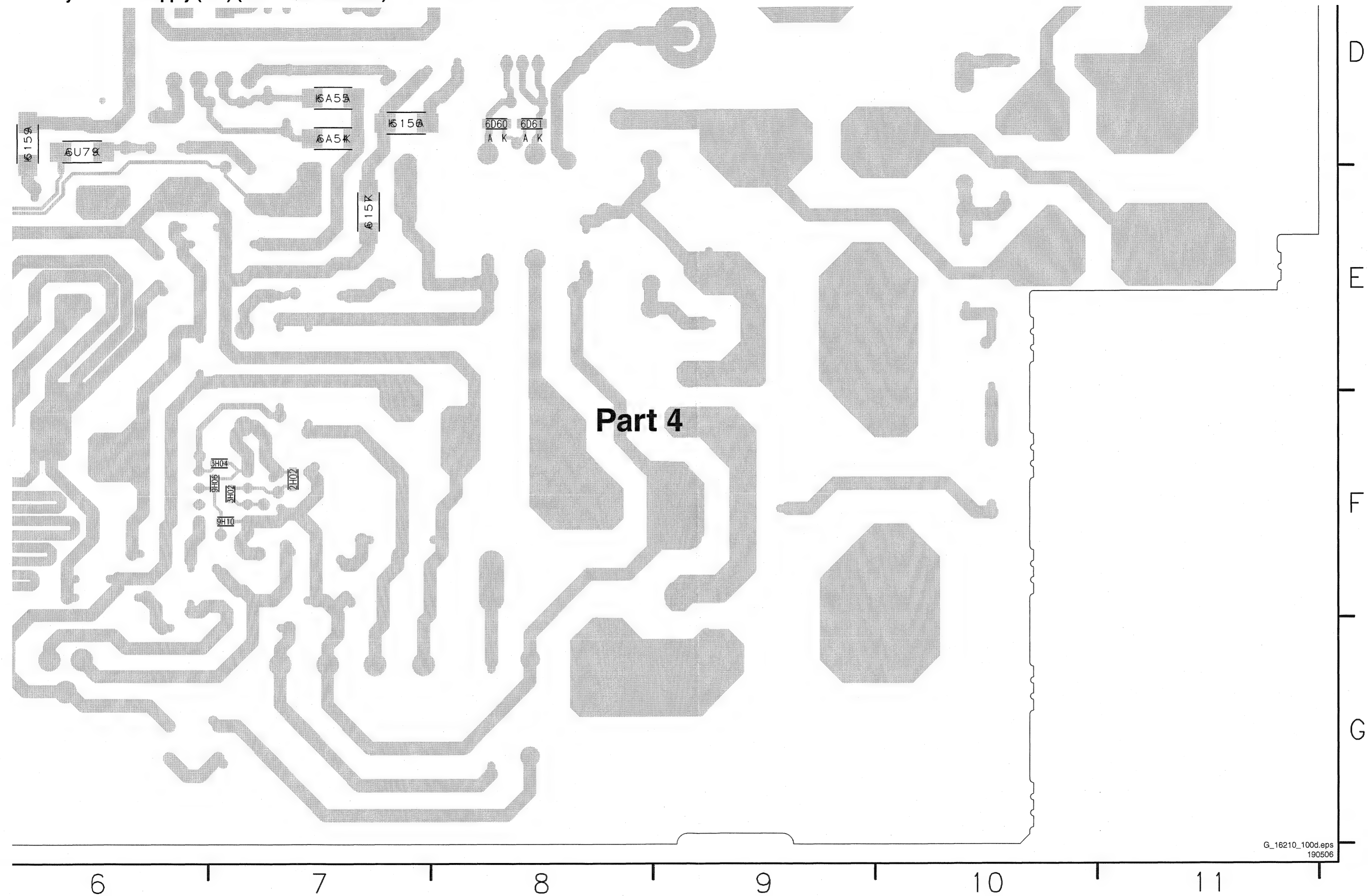


## G



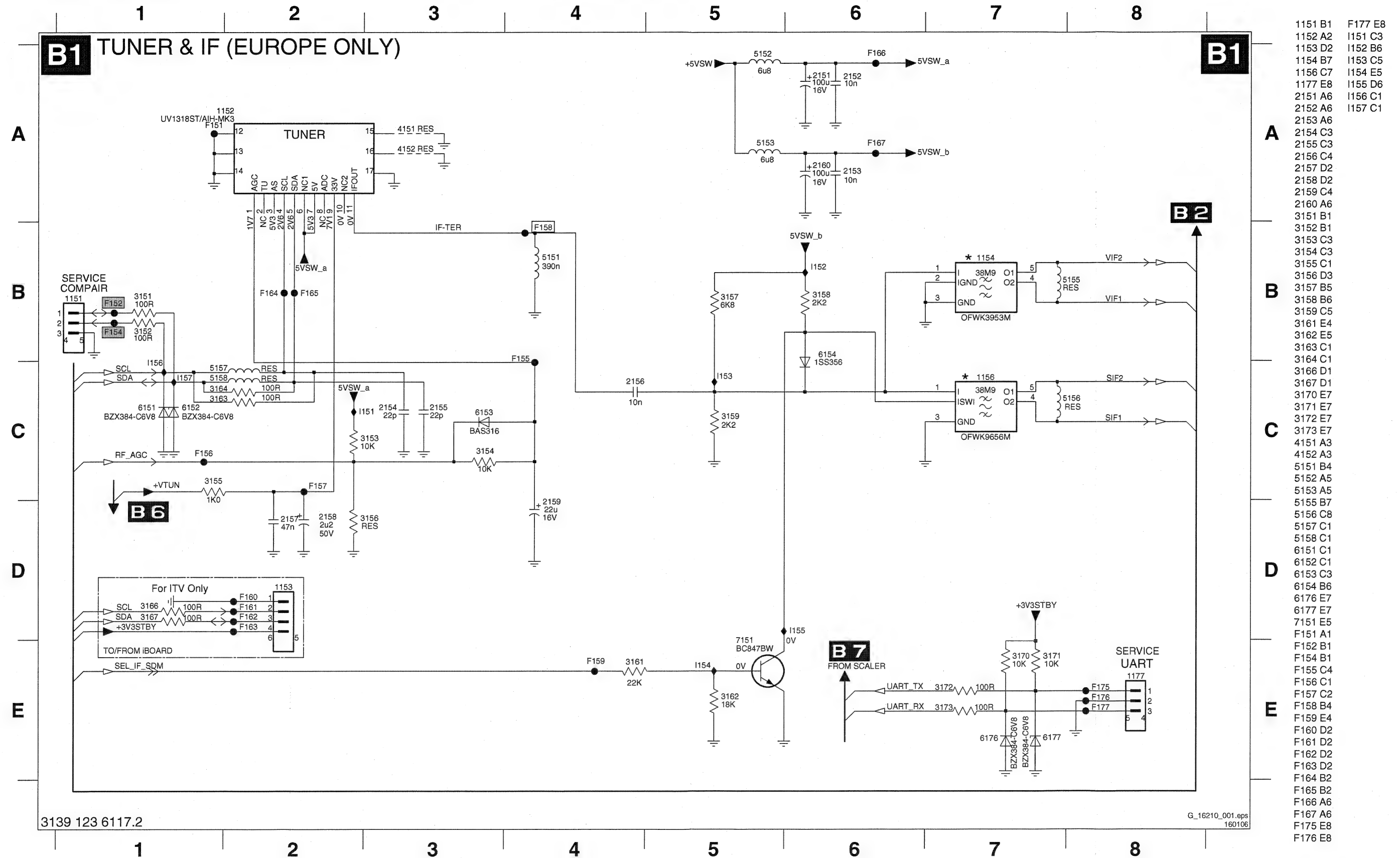


## Layout LCD Supply (42") (Part 4 Bottom Side)



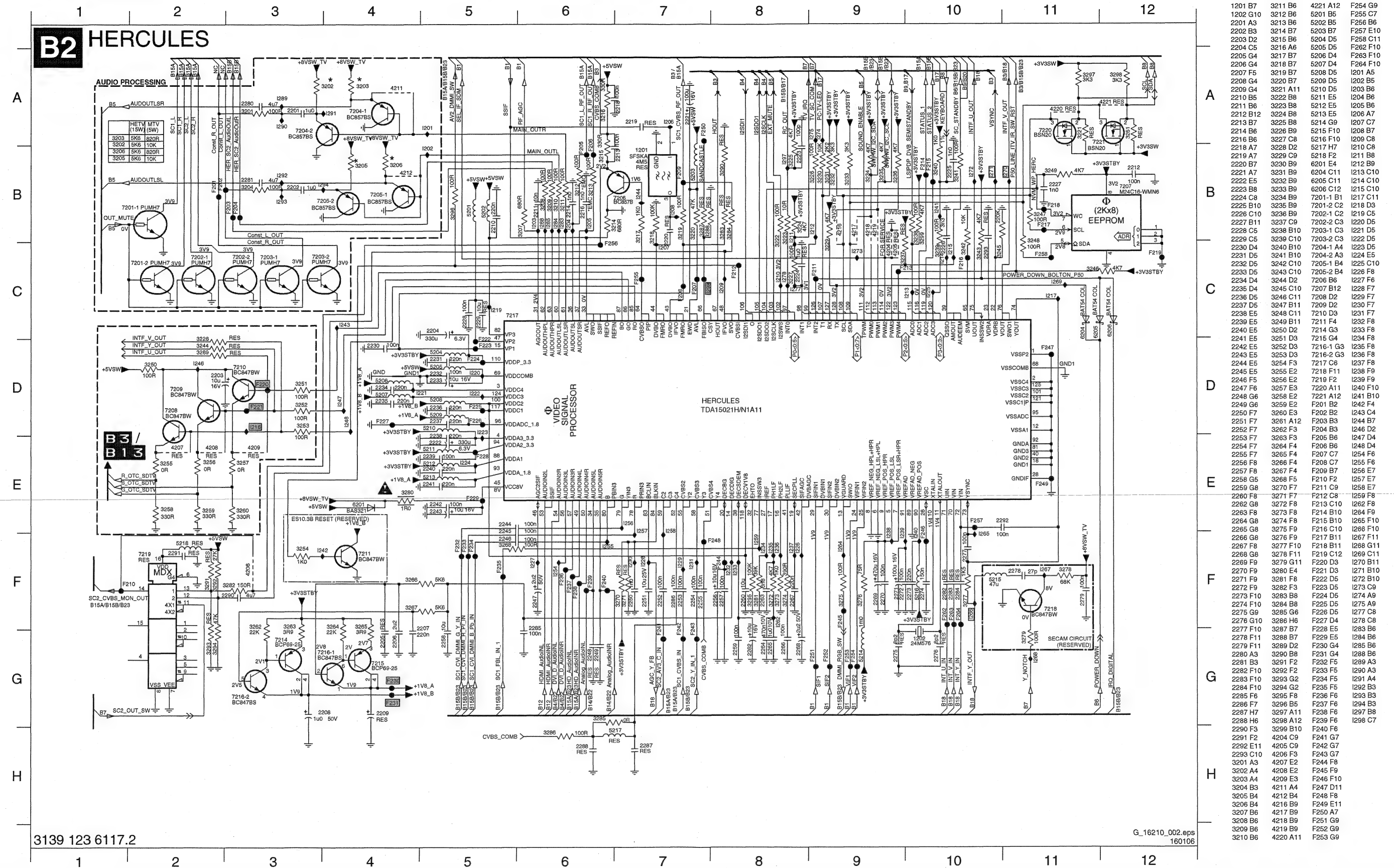


## SSB: Tuner and IF



## SSB: Hercules

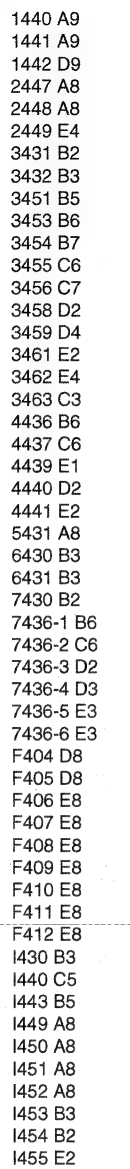
## B2 HERCULES



3139 123 6117.2

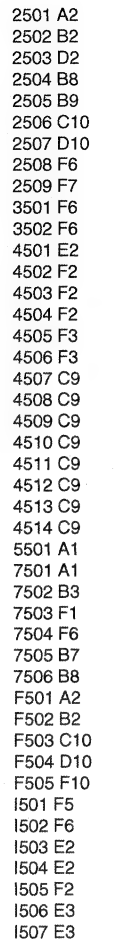
G\_16210\_002.eps  
160106

### B3 SYNC INTERFACE

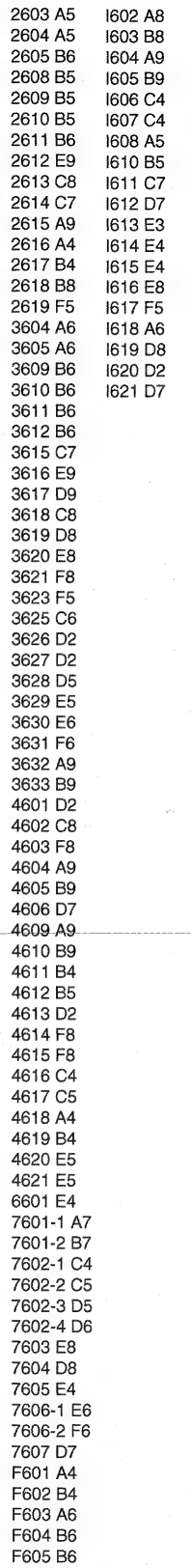




#### **B4** AUDIO DELAY LINE (LIPSYNC) (FOR PDP SETS ONLY)



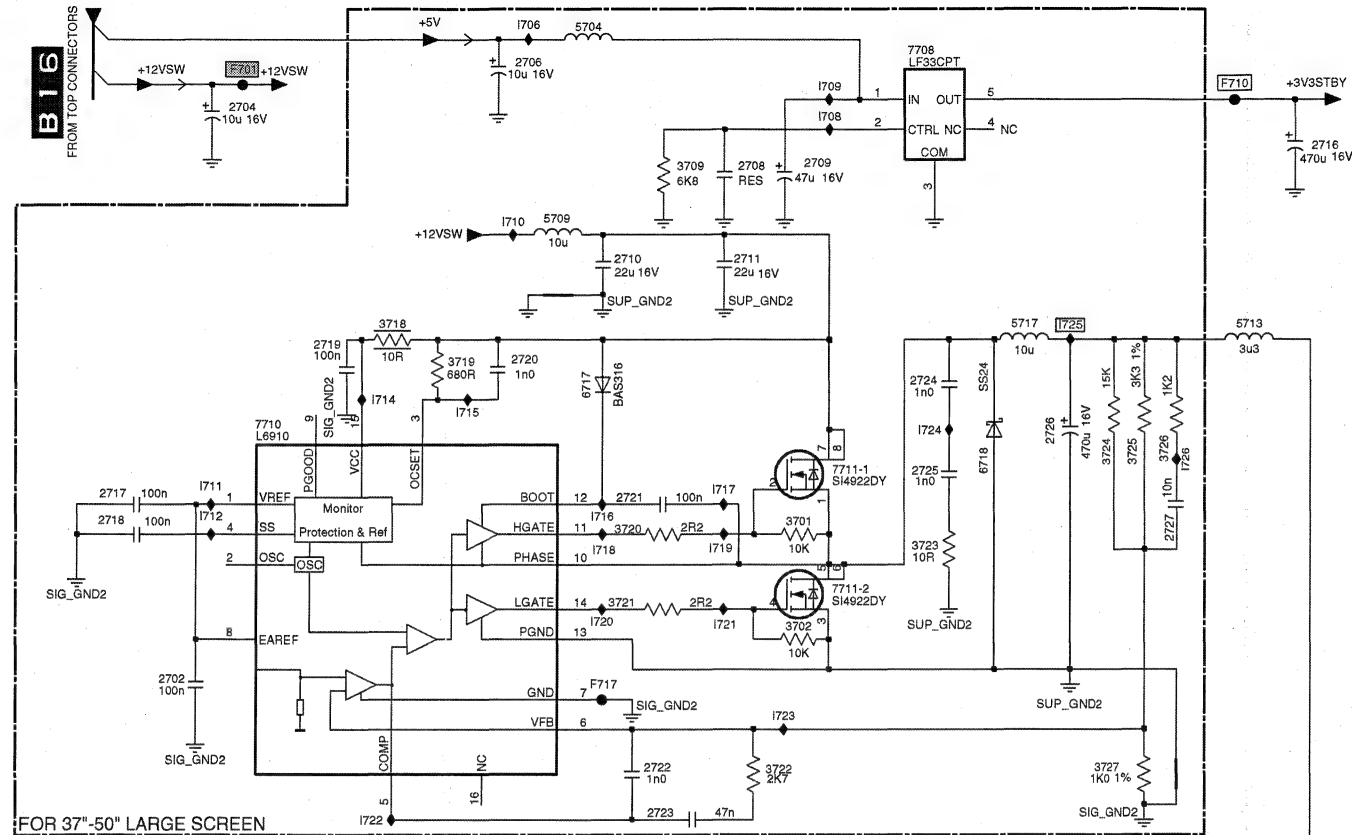
## AUDIO PROCESSING



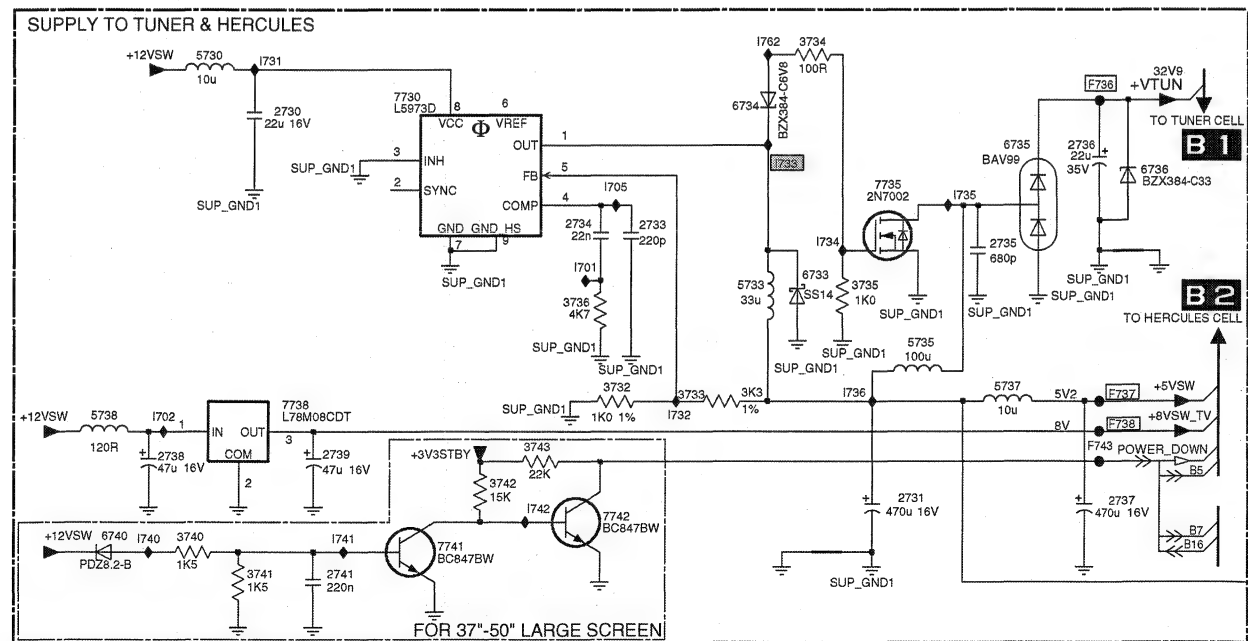
## SSB: DC-DC Converter

## B6 DC-DC CONVERTER

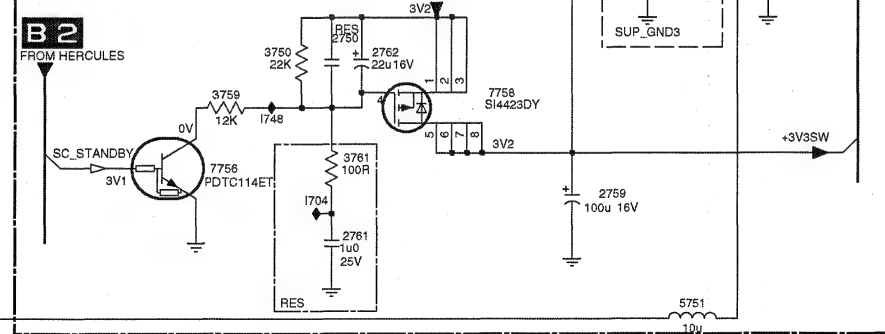
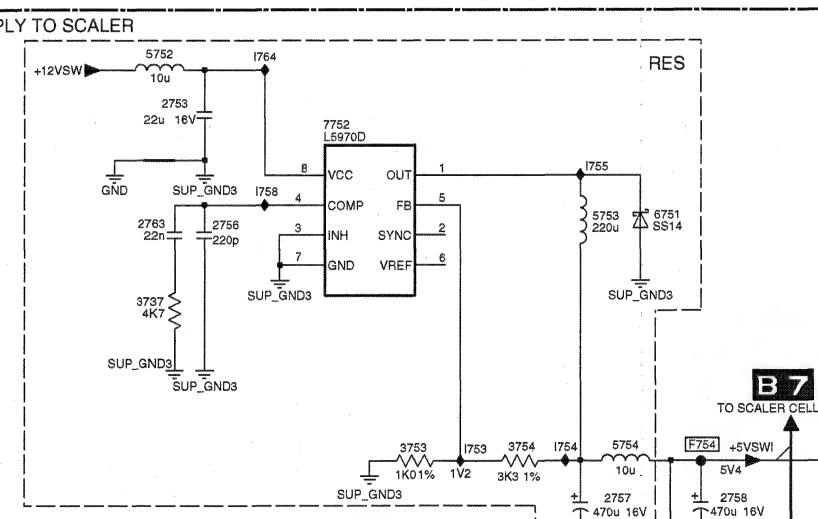
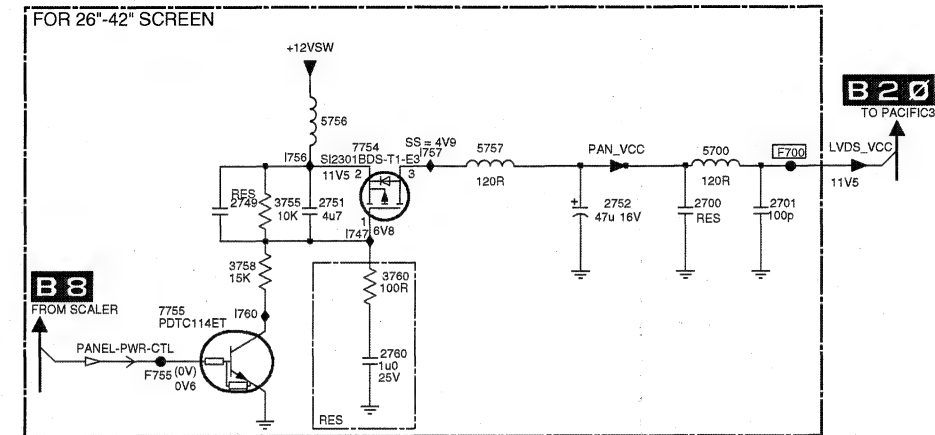
B6



FOR 37"-50" LARGE SCREEN



FOR 37"-50" LARGE SCREEN



2700 B11	6736 F6
2701 B11	6740 H1
2702 D1	6751 E10
2704 B2	7708 A5
2706 A3	7710 C2
2708 B4	7711-1 C4
2709 B4	7711-2 D4
2710 B4	7730 F2
2711 B4	7735 F5
2716 B7	7738 G2
2717 D1	7741 H3
2718 D1	7742 H3
2719 C2	7752 D9
2720 C3	7754 B9
2721 D4	7755 C8
2722 E4	7756 G8
2723 E4	7758 G9
2724 C5	7700 B11
2725 C5	7701 B2
2726 C5	7710 B6
2727 D6	7717 D3
2730 F2	7736 F6
2731 H5	7737 G6
2733 F4	7738 G6
2734 F3	7743 G6
2735 F5	7754 F11
2736 F6	7755 C8
2737 H6	7701 F3
2738 G1	7702 G1
2739 G2	7704 G8
2741 H2	7705 F3
2749 B8	7706 A3
2750 F9	7708 B4
2751 B9	7709 B4
2752 B10	7710 B3
2753 D8	7711 D2
2756 E8	7712 D2
2757 F10	7714 C2
2758 F11	7715 C3
2759 G10	7716 D3
2760 C9	7717 D4
2761 G9	7718 D3
2762 G9	7719 D4
2763 E8	7720 D3
3701 D4	7721 D4
3702 D4	7722 E2
3709 B4	7723 E4
3718 C2	7724 C5
3719 C3	7725 C6
3720 D4	7726 C6
3721 D3	7731 E2
3722 E4	7732 G4
3723 D5	7733 F4
3724 C6	7734 F4
3725 C6	7735 F5
3726 C6	7736 G5
3727 E6	7740 H1
3732 G3	7741 H2
3733 G4	7742 H3
3734 E4	7747 B9
3735 G5	7748 G8
3736 G3	7753 F9
3737 E8	7754 F10
3740 H2	7755 D10
3741 H2	7756 B9
3742 H3	7757 B9
3743 G3	7758 E8
3750 G8	7760 C8
3753 F9	7762 E4
3754 F10	7764 D8
3755 B9	
3758 C8	
3759 G8	
3760 C9	
3761 G9	
5700 B11	
5704 A3	
5709 B3	
5713 C6	
5717 C5	
5730 E2	
5733 G4	
5735 G5	
5737 G5	
5738 G1	
5751 H10	
5752 D8	
5753 E10	
5754 F10	
5756 B9	
5757 B10	
6717 C3	
6718 C5	
6733 G4	
6734 F4	
6735 F5	

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160106



## SSB: Diversity Tables B1-B6

## B01

Item nr.	EU non DVB	EU DVB	Description
1152	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TUN V+U PLL IEC BGHIL B
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TUNER UV1318SD/A CP H N-4
3163	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 100R PM5 COL
3164	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 100R PM5 COL
5152	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FXDIND SM 1008 1U PM5 COL R
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FXDIND SM 1008 6U8 PM5 COL R
5157	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FXDIND 0603 100MHZ 600R COL R
5158	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FXDIND 0603 100MHZ 600R COL R

## B02

Item Nr.		/3 China	AP 10pg TXT	EU 10pg TXT	EU 10pg TXT DVB	EU 1000pg TXT	EU 1000pg TXT DVB	Description
2203	319803041090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 10U PM20 COL R
2244	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2245	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2246	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2280	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2281	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2289	319802131510	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 150R PM5 COL
2290	222224059872	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0805 Y5V 10V 4U7 P8020 R
2291	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
3250	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3251	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3252	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3253	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3255	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3256	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3257	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3258	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3259	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3260	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3282	319802131510	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 150R PM5 COL
3294	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3296	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
4206	319802190020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0805 JUMP. 0R05 COL R
4218	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
4219	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
5218	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
6206	319801010680	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO SIG SM BAT54 SOD323 COL R
7208	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7209	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7210	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7217	935280215557	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM TDA15031H/N1C91 (PHSE)Y
	935280366557	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM TDA15021H/N1C91 (PHSE) Y
	935280367557	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM TDA15011H/N1CD0 (PHSE) Y
7219	319801071090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74HC4053D (COL) R

## B03

Item Nr.		10pg TXT (w/o OTC)	1000pg TXT (with OTC)	DVB 10pg TXT (w/o OTC)	DVB 1000pg TXT (with OTC)	Description
1442	242202519085	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CON V 14P M 1.00 SM SR R
3432	319803102720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 2K7 PM5 COL
6430	934054842115	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REG SM PDZ2.4B (PHSE) R
6431	932220595685	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO SIG SM 1N4148WS-V (VISH) R

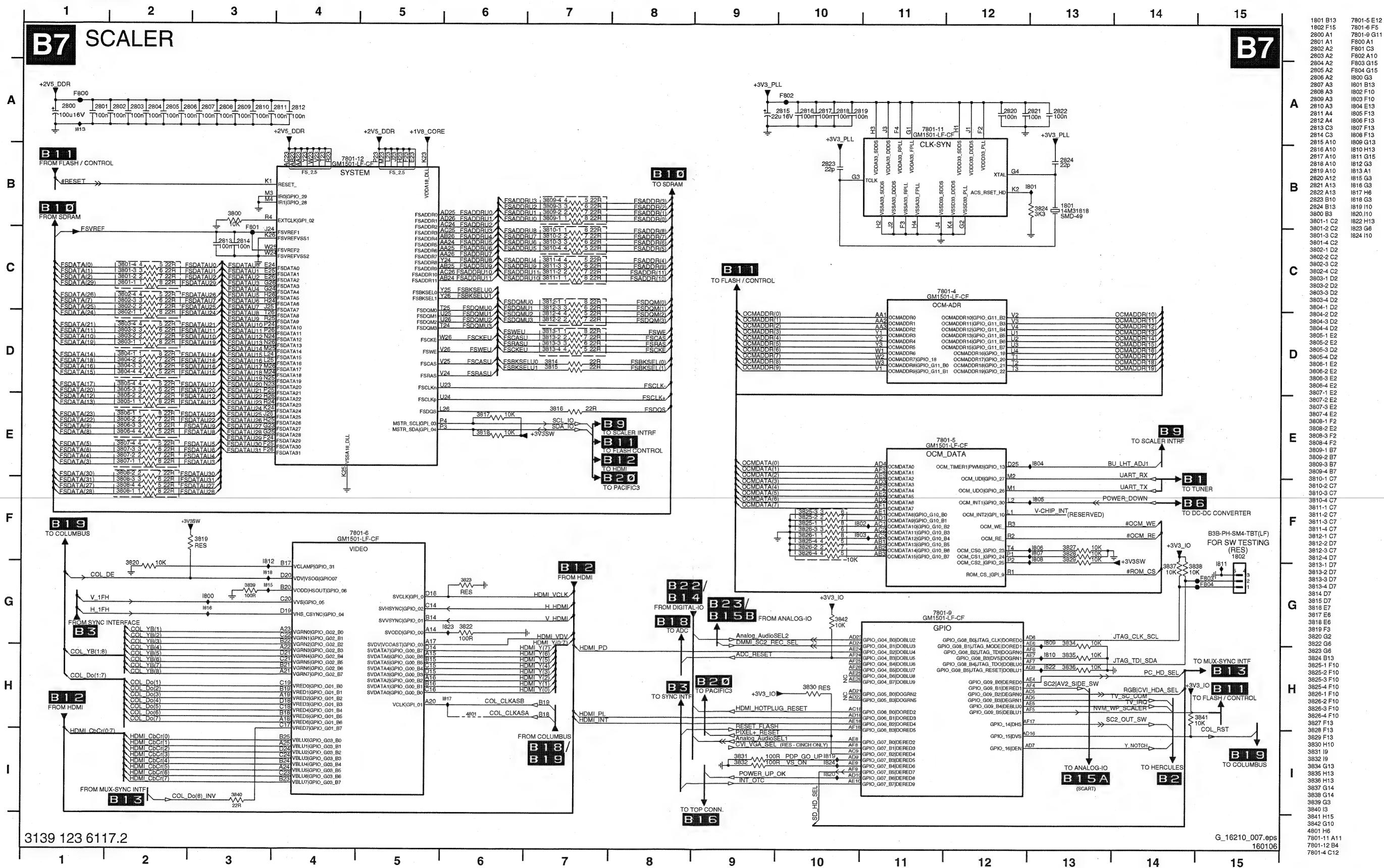
## B05

Item Nr.		LCD 37" - 50"	LCD 26" - 32"	PDP 42" - 50"	Description
2612	319801741050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 Y5V 10V 1U COL
2613	319801741050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 Y5V 10V 1U COL
2616	202055200035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
2617	202055200035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
2619	319803024790	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 6V3 47U PM20 COL R
3615	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3616	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3617	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3618	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL
3619	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3620	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3623	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3625	319803103320	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 3K3 PM5 COL
3627	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL
3628	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3629	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL
3630	319803102220	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 2K2 PM5 COL
	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
3631	319803102220	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 2K2 PM5 COL
	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
3632	232270570569	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 RC31 56R PM5 R
3633	232270570569	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 RC31 56R PM5 R
4601	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4602	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4603	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4606	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4609	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4610	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4611	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4612	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4613	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4614	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4615	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4618	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4619	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
7603	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7604	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7607	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R

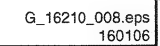
## B06

Item Nr.		PDP - 42" - 50"	LCD 26" - 32"	LCD 37" - 42"	Description
2701	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2702	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2706	319803041090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 10U PM20 COL R
2709	319803044790	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 47U PM20 COL R
2710	202055200211	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 1210 X5R 16V 22U PM10 R
2711	202055200211	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 1210 X5R 16V 22U PM10 R
2717	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2718	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2719	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2720	319803501020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 50V 1N COL
2721	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2722	319803501020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 50V 1N COL
2723	319803574730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 47N COL
2724	319801631020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0603 NP0 25V 1N COL
2725	319801631020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0603 NP0 25V 1N COL
2726	202002100097	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM SGV 16V 470U PM20 R
2727	319803521030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 16V 10N COL
2741	319801732240	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X7R 10V 220N COL
	222224059872	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0805 Y5V 10V 4U7 P8020 R
2752	319803044790	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 47U PM20 COL R
3701	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3702	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3709	319803106820	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 6K8 PM5 COL
3718	232275061009	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM FUSE 1206 10R PM5 R
3719	319803106810	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 680R PM5 COL
3720	319802132280	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 2R2 PM5 COL
3721	319802132280	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 2R2 PM5 COL
3722	319803102720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 2K7 PM5 COL
3723	319802151090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0805 10R PM5 COL R
3724	319803101530	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 15K PM5 COL
3725	232270463302	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 RC22H 3K3 PM1 R
3726	319803101220	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K2 PM5 COL
3727	232270461002	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 RC22H 1K PM1 R
3740	319803101520	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K5 PM5 COL
3741	319803101520	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K5 PM5 COL
3742	319803101530	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 15K PM5 COL
3743	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL
3750	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL
3755	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3758	319803101530	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 15K PM5 COL
3759	319803101230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 12K PM5 COL
5700	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
5704	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
5709	242253594134	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD SM 7032 10U PM20 R
5713	242253601218	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD SM DRH104RNP 3U3 PM30
5717	242253600671	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD SM 12575 10U PM20 R
5754	242253594134	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD SM 7032 10U PM20 R
5756	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
5757	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
6717	319801010630	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO SIG SM BAS316 (COL) R
6718	319801010720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REC SS24 COL R
6740	934054857115	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REG SM PDZ8.2B (PHSE) R
6751	319801010710	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REC SS14 COL R
7708	932213916668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM LF33CPT (STO0) R
7710	932218277668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM L6910 (ST00) R
7711	932216070668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FET POW SM SI4936ADY-E3(VISH)R
7741	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7742	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7754	932221400668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FET POW SM SI2301BDS-E3(VISH)R
7755	319801044110	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM PDT0114ET (COL) R
7756	319801044110	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM PDT0114ET (COL) R
7758	932221214668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FET POW SM SI4423DY-E3 (VISH)R

## SSB: Scaler

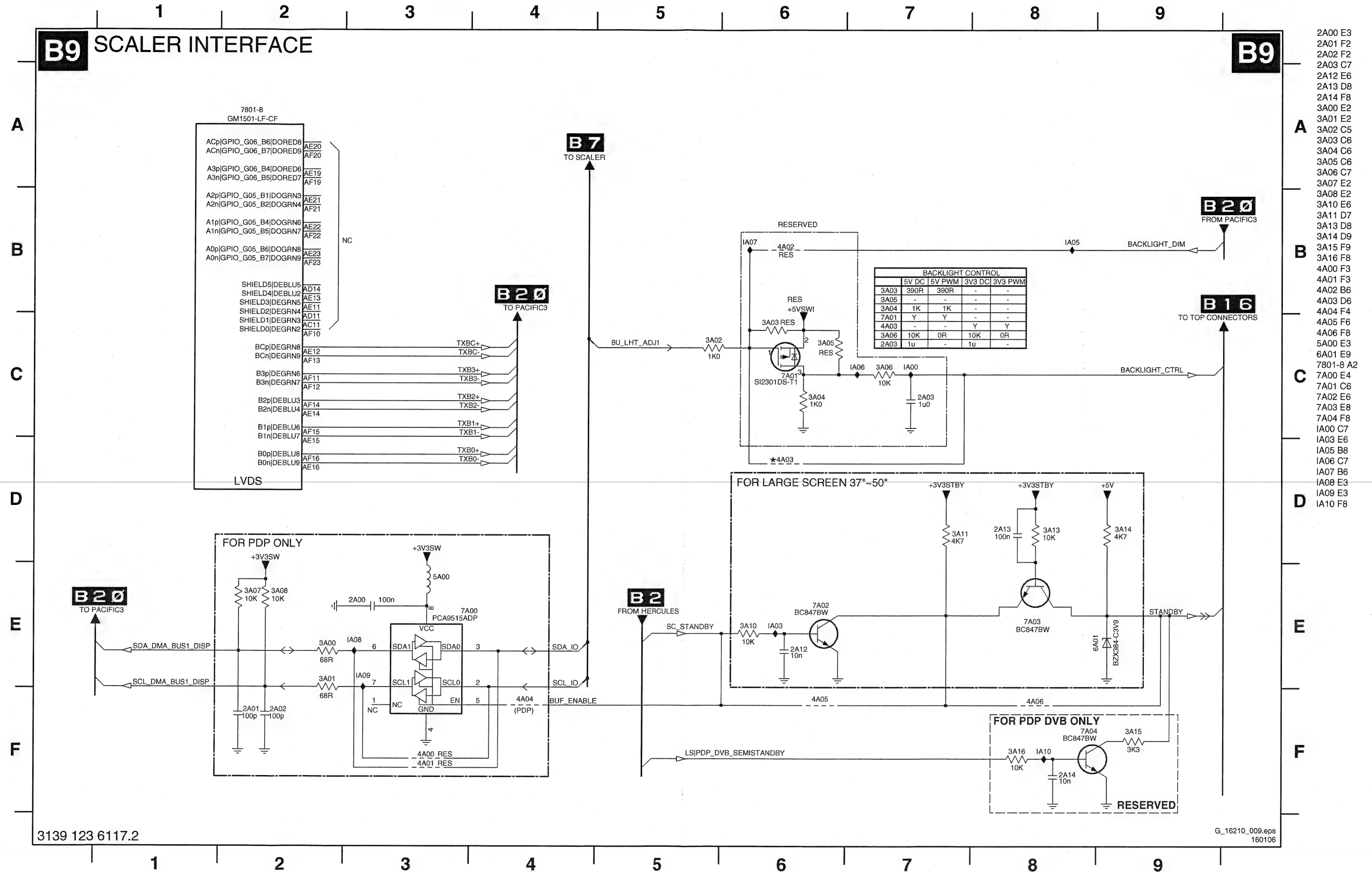


## B8 SCALER



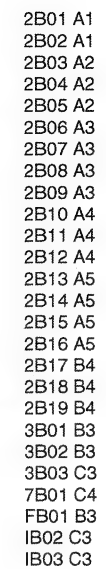


## SSB: Scaler Interface



2A00 E3  
2A01 F2  
2A02 F2  
2A03 C7  
2A12 E6  
2A13 D8  
2A14 F8  
3A00 E2  
3A01 E2  
3A02 C5  
3A03 C6  
3A04 C6  
3A05 C6  
3A06 C7  
3A07 E2  
3A08 E2  
3A10 E6  
3A11 D7  
3A13 D8  
3A14 D9  
3A15 F9  
3A16 F8  
4A00 F3  
4A01 F3  
4A02 B6  
4A03 D6  
4A04 F4  
4A05 F6  
4A06 F8  
5A00 E3  
6A01 E9  
7801-8 A2  
7A00 E4  
7A01 C6  
7A02 E6  
7A03 E8  
7A04 F8  
IA00 C7  
IA03 E6  
IA05 B8  
IA06 C7  
IA07 B6  
IA08 E3  
IA09 E3  
IA10 F8

## B10 SDRAM



## B11 FLASH / CONTROL

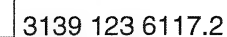


**B 7 & B 19**  
TO SCALER TO COLUMBUS

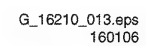
G\_16210\_011.eps  
160106



2D00 A10	2D10 B2	2D15 B2	2D22 E2	2D30 D1	2D36 E2	2D43 G2	2D48 I3	2D53 G10	2D58 I11	3D03 B10	3D09 A10	3D15-3 C14	3D16-4 C14	3D18 F10	3D20-4 G8	3D22 E14	4D02 G8	5D00 F1	5D05 H2	7D03-1 A11	FD01 B9	FD06 E15	FD11 I2	FD17 A9	ID10 G10	ID19 I14	ID28 G8
2D01 B10	2D11 B1	2D16 B2	2D23 E2	2D31 D1	2D37 E2	2D44 G2	2D49 H5	2D54 G11	2D59 I11	3D05 I4	3D10 B10	3D15-4 C14	3D17-1 B14	3D19 F9	3D21-1 B14	3D23 D14	4D03 H8	5D01 G1	5D06 F1	7D03-2 G6	FD02 B9	FD07 G1	FD12 F1	ID00 H1	ID11 H11	ID20 A9	
2D02 F2	2D12 B2	2D17 B2	2D24 E2	2D32 E1	2D38 E2	2D45 H1	2D50 G9	2D55 G11	3D00 A9	3D06 I4	3D11 E13	3D16-1 D14	3D17-2 B14	3D20-1 G8	3D21-2 B14	3D24 H11	4D04 I4	5D02 G1	5D08 A8	7D03-3 A5	FD03 C9	FD08 G1	FD13 G9	ID01 H2	ID15 I15	ID22 I0	
2D08 B1	2D13 B1	2D18 B2	2D25 E2	2D34 E2	2D39 E2	2D46 H2	2D51 G9	2D56 H10	3D01 A10	3D07 E10	3D15-1 C14	3D16-2 D14	3D17-3 B14	3D20-2 H8	3D21-3 B14	3D26 H11	4D05 I4	5D03 H2	7D01 B8	7D04 G9	FD04 C9	FD09 G1	FD14 H2	ID08 H10	ID14 D15	ID24 I5	
2D09 B1	2D14 B2	2D21 E2	2D29 C1	2D35 E2	2D42 E2	2D47 I2	2D52 G10	2D57 H10	3D02 B9	3D08 E10	3D15-2 C14	3D16-3 D14	3D17-4 A14	3D20-3 H8	3D21-4 B14	3D27 H4	4D06 I4	5D04 I2	7D02 H1	7D05 H4	FD05 E15	FD10 I2	FD15 H8	ID09 H11	ID18 I14	ID25 I4	

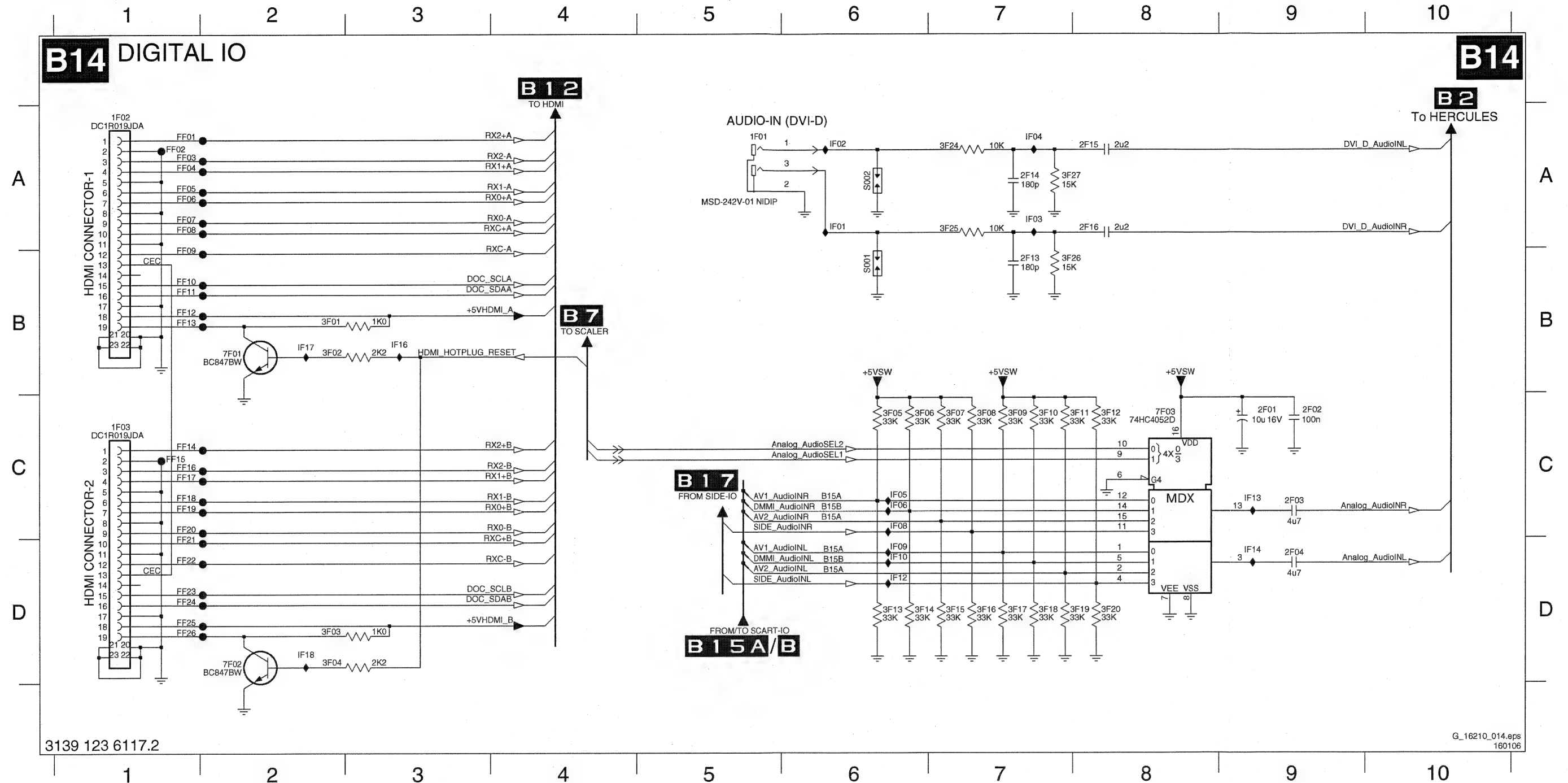


## B13 MUX-SYNC INTERFACE



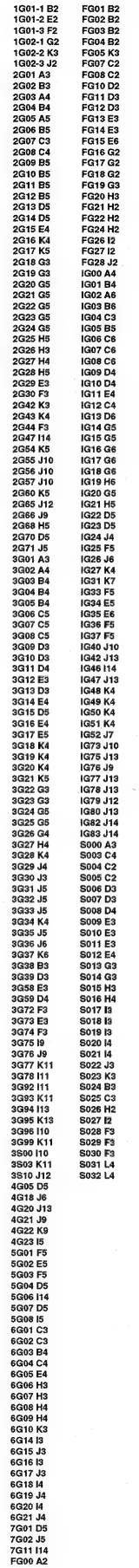
## SSB: Digital I/O

1F01 A5 2F01 C9 2F04 D9 2F15 A8 3F02 B2 3F05 C6 3F08 C7 3F11 C8 3F14 D6 3F17 D7 3F20 D8 3F26 A7 7F02 D2 FF02 A1 FF05 A1 FF08 A1 FF11 B1 FF14 C1 FF17 C1 FF20 C1 FF23 D1 FF26 D1 IF03 A7 IF06 C6 IF10 D6 IF14 D9 IF18 D2  
1F02 A1 2F02 C9 2F13 A7 2F16 A8 3F03 D2 3F06 C6 3F09 C7 3F12 C8 3F15 D7 3F18 D7 3F24 A7 3F27 A7 7F03 C8 FF03 A1 FF06 A1 FF09 B1 FF12 B1 FF15 C1 FF18 C1 FF21 D1 FF24 D1 IF01 A6 IF04 A7 IF08 C6 IF12 D6 IF16 B3 S001 A6  
1F03 C1 2F03 C9 2F14 A7 3F01 B2 3F04 D2 3F07 C7 3F10 C7 3F13 D6 3F16 D7 3F19 D8 3F25 A7 7F01 B2 FF01 A1 FF04 A1 FF07 A1 FF10 B1 FF13 B1 FF16 C1 FF19 C1 FF22 D1 FF25 D1 IF02 A6 IF05 C6 IF09 D6 IF13 C9 IF17 B2 S002 B6

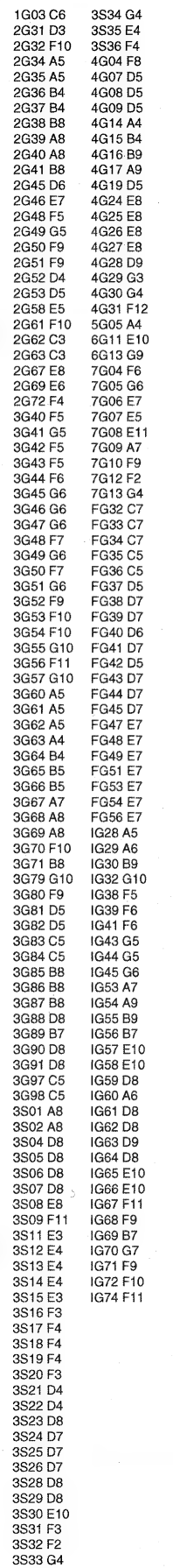




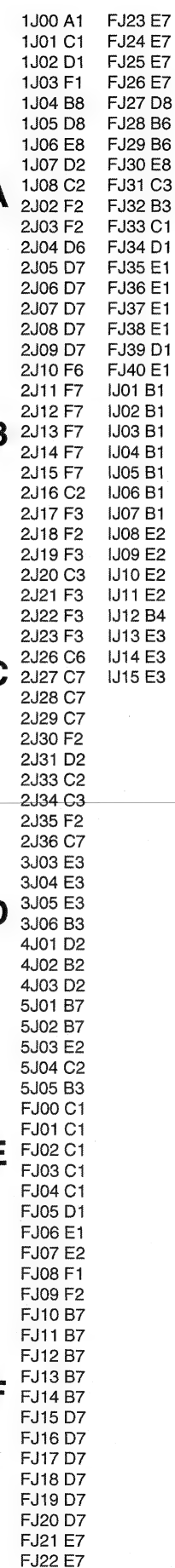
**B15A**



**B15B** DMMI

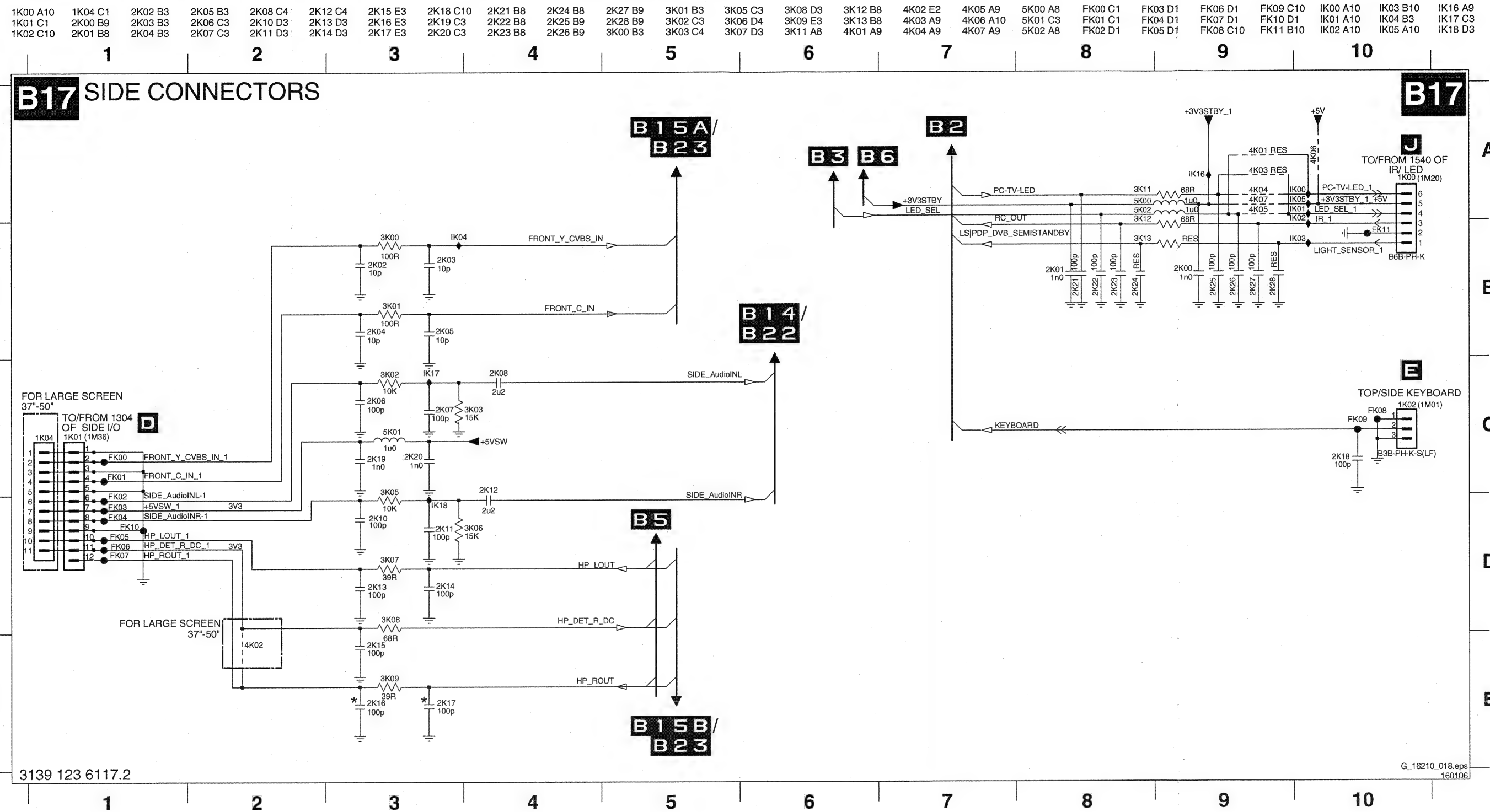


## B16 TOP CONNECTORS

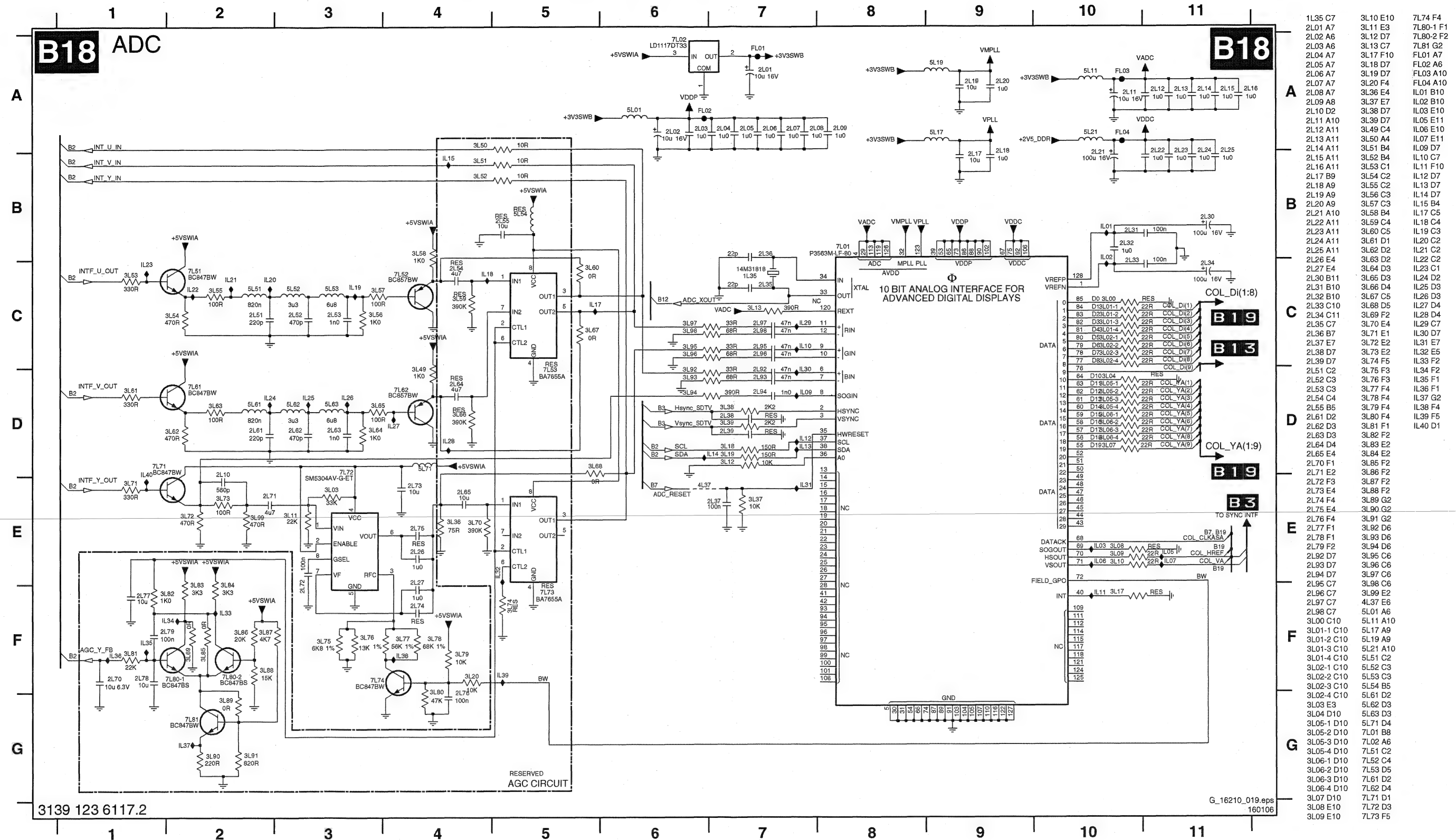




## SSB: Side Connectors

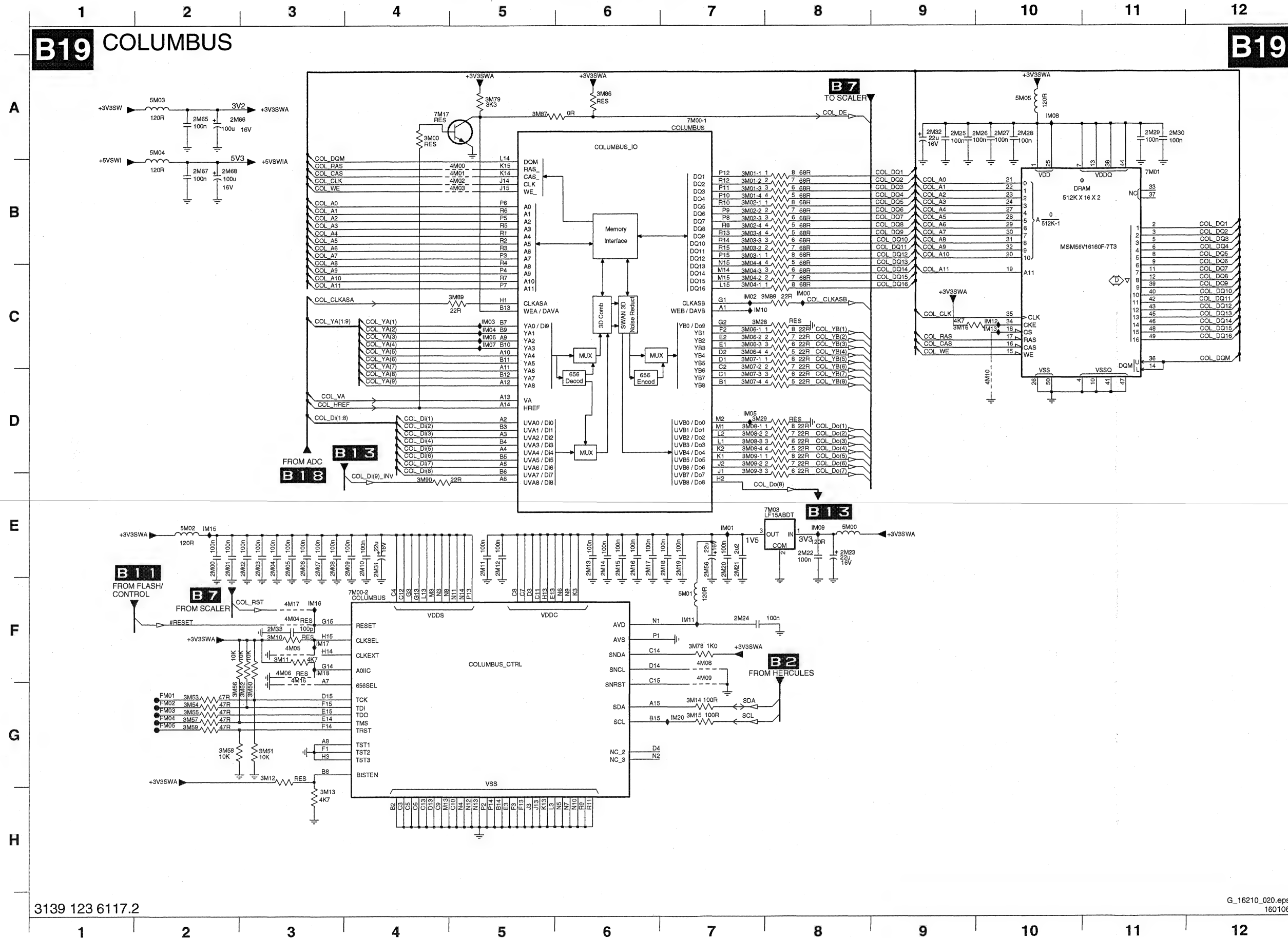


SSB: ADC



1L35 C7	3L10 E10	7L74 F4
2L01 A7	3L11 E3	7L80-1 F1
2L02 A6	3L12 D7	7L80-2 F2
2L03 A6	3L13 C7	7L81 G2
2L04 A7	3L17 F10	7L01 A7
2L05 A7	3L18 D7	7L02 A6
2L06 A7	3L19 D7	7L03 A10
2L07 A7	3L20 F4	7L04 A10
2L08 A7	3L36 E4	7L01 B10
2L09 A8	3L37 E7	7L02 B10
2L10 D2	3L38 D7	7L03 E10
2L11 A10	3L39 D7	7L05 E11
2L12 A11	3L49 C4	7L06 E10
2L13 A11	3L50 A4	7L07 E11
2L14 A11	3L51 B4	7L09 D7
2L15 A11	3L52 B4	7L10 C7
2L16 A11	3L53 C1	7L11 F10
2L17 B9	3L54 C2	7L12 D7
2L18 A9	3L55 C2	7L13 D7
2L19 A9	3L56 C3	7L14 D7
2L20 A9	3L57 C3	7L15 B4
2L21 A10	3L58 B4	7L17 C5
2L22 A11	3L59 C4	7L18 C4
2L23 A11	3L60 C5	7L19 C3
2L24 A11	3L61 D1	7L20 C2
2L25 A11	3L62 D2	7L21 C2
2L26 E4	3L63 D2	7L22 C2
2L27 E4	3L64 D3	7L23 C1
2L30 B11	3L65 D3	7L24 D2
2L31 B10	3L66 D4	7L25 D3
2L32 B10	3L67 C5	7L26 D3
2L33 C10	3L68 D5	7L27 D4
2L34 C11	3L69 F2	7L28 D4
2L35 C7	3L70 E4	7L29 C7
2L36 B7	3L71 E1	7L30 D7
2L37 E7	3L72 E2	7L31 E7
2L38 D7	3L73 E2	7L32 E5
2L39 D7	3L74 F5	7L33 F2
2L51 C2	3L75 F3	7L34 F2
2L52 C3	3L76 F3	7L35 F1
2L53 C3	3L77 F4	7L36 F1
2L54 C4	3L78 F4	7L37 G2
2L55 B5	3L79 F4	7L38 F4
2L61 D2	3L80 F4	7L39 F5
2L62 D3	3L81 F1	7L40 D1
2L63 D3	3L82 F2	
2L64 D4	3L83 E2	
2L65 E4	3L84 E2	
2L70 F1	3L85 F2	
2L71 E2	3L86 F2	
2L72 F3	3L87 F2	
2L73 E4	3L88 F2	
2L74 F4	3L89 G2	
2L75 E4	3L90 G2	
2L76 F4	3L91 G2	
2L77 F1	3L92 D6	
2L78 F1	3L93 D6	
2L79 F2	3L94 D6	
2L92 D7	3L95 C6	
2L93 D7	3L96 C6	
2L94 D7	3L97 C6	
2L95 C7	3L98 C6	
2L96 C7	3L99 E2	
2L97 C7	4L37 E6	
2L98 C7	5L01 A6	
3L00 C10	5L11 A10	
3L01-1 C10	5L17 A9	
3L01-2 C10	5L19 A9	
3L01-3 C10	5L21 A10	
3L01-4 C10	5L51 C2	
3L02-1 C10	5L52 C3	
3L02-2 C10	5L53 C3	
3L02-3 C10	5L54 B5	
3L02-4 C10	5L61 D2	
3L03 E3	5L62 D3	
3L04 D10	5L63 D3	
3L05-1 D10	5L71 D4	
3L05-2 D10	7L01 B8	
3L05-3 D10	7L02 A6	
3L05-4 D10	7L51 C2	
3L06-1 D10	7L52 C4	
3L06-2 D10	7L53 D5	
3L06-3 D10	7L61 D2	
3L06-4 D10	7L62 D4	
3L07 D10	7L71 D1	
3L08 E10	7L72 D3	
3L09 E10	7L73 F5	

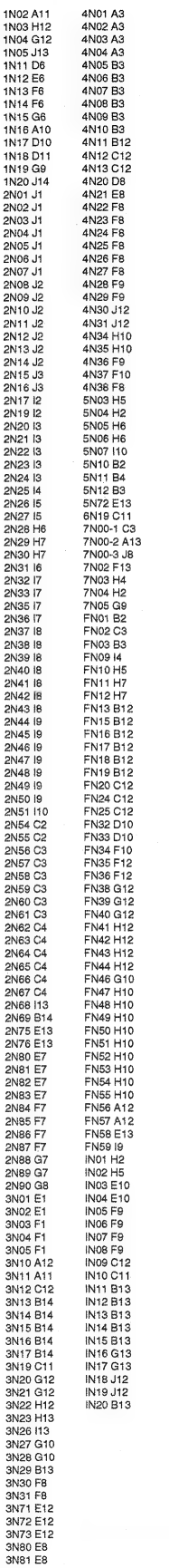
## SSB: Columbus



2M00 E2  
2M01 E2  
2M02 E3  
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2M07 E3  
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2M09 E4  
2M10 E4  
2M11 E5  
2M12 E5  
2M13 E6  
2M14 E6  
2M15 E6  
2M16 E6  
2M17 E6  
2M18 E7  
2M19 E7  
2M20 E7  
2M21 E7  
2M22 E8  
2M23 E8  
2M24 F7  
2M25 A9  
2M26 A10  
2M27 A10  
2M28 A10  
2M29 A11  
2M30 A11  
2M31 E4  
2M32 A9  
2M33 F3  
2M34 A9  
2M35 E7  
2M36 A2  
2M37 B2  
2M38 B2  
2M39 A4  
2M40 A4  
2M41 B7  
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2M95 C7  
2M96 C7  
2M97 C7  
2M98 C7  
2M99 C7  
2M100 C7



**B20** PACIFIC 3



## SSB: Diversity Tables B9-B20

## B09

Item Nr.		PDP 42" - 50"	LCD 26" - 32"	LCD 37" - 42"	PDP DVB 42" - 50"	PDP DVB SDI	PDP SDI	Description
2A00	319801731040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X7R 16V 100N COL
2A01	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2A02	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2A12	319803521030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 16V 10N COL
2A13	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2A14	319803521030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 16V 10N COL
3A00	319803106890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 68R PM5 COL
3A01	319803106890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 68R PM5 COL
3A02	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3A07	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3A08	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3A10	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3A11	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3A13	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
3A14	319803104720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 4K7 PM5 COL
3A15	319803103320	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 3K3 PM5 COL
3A16	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
4A03	319802190030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0603 JUMP. 0R05 COL
4A04	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
4A05	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
4A06	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
5A00	319801890060	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	FXDIND 0805 100MHZ 30R COL R
7A00	935275998118	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM PCA9515ADP (PHSE) R
7A02	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7A03	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R
7A04	319801042310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TRA SIG SM BC847BW (COL) R

## B13

Item Nr.		EU 10pg TXT	EU 1000pg TX	AP with TXT	AP non TXT	Description
2E04	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2E05	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2E06	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2E15	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2E21	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2E22	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2E23	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
3E00	232270570569	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 RC31 56R PM5 R
3E01	232270570569	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 RC31 56R PM5 R
3E02	232270570569	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 RC31 56R PM5 R
3E13	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3E14	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3E15	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
3E16	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
3E17	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
3E18	319803103310	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 330R PM5 COL
3E32	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3E34	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3E46	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
	319803101090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10R PM5 COL
4E10	319803101090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10R PM5 COL
4E11	319803101090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10R PM5 COL
5E02	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
5E03	242254945333	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
6E01	319802052780	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REG SM BZX384-C2V7 COL R
6E03	319802052780	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DIO REG SM BZX384-C2V7 COL R
7E02	932219956668	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM ADG781BCPZ (ANA0) R
7E03	319801071090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74HC4053D (COL) R
7E04	319801070740	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74LCX14T (COL) R
	935260739118	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74LVC14APW (PHSE) R
7E05	319801070740	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74LCX14T (COL) R
	935260739118	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	IC SM 74LVC14APW (PHSE) R

## B15AB

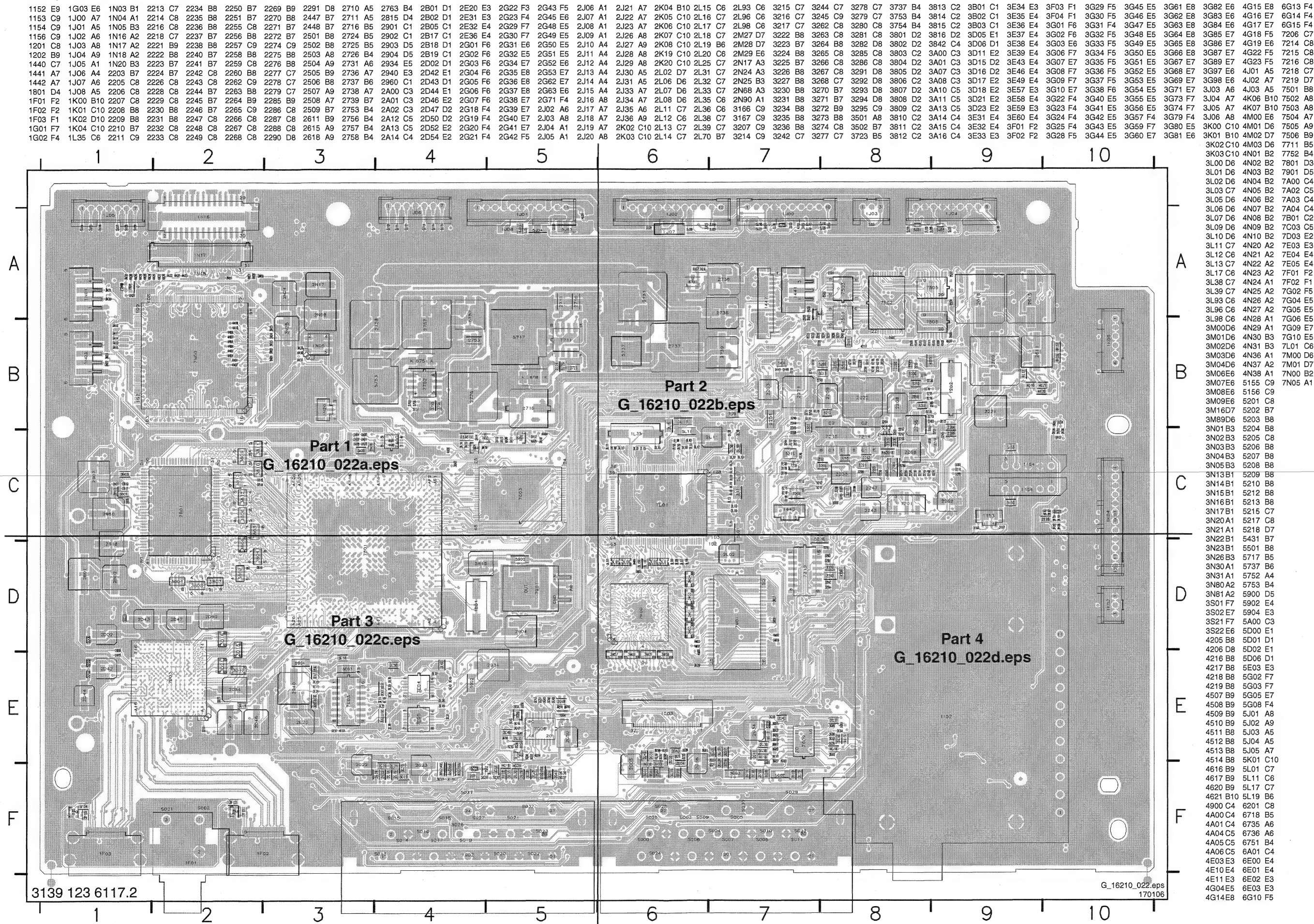
Item Nr.		Non DVB	With DVB	Description
1G03	242202518872	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CON H 32P F 0.50 SM FPC 0.3 R
2G31	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G32	319801741050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 Y5V 10V 1U COL
	319803041090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 10U PM20 COL R
2G35	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2G36	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G37	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G38	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G39	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G40	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G41	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G45	319801731020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X7R 50V 1N COL
	319803501020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 X7R 50V 1N COL
2G48	319801741050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 Y5V 10V 1U COL
2G49	319801741050	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 Y5V 10V 1U COL
2G50	319803041090	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	ELCAP SM 16V 10U PM20 COL R
2G51	319803571040	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0402 Y5V 16V 100N COL
2G52	202055296703	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 180P PM5 R
2G53	202055296703	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 180P PM5 R
2G62	202055200035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
	202055200183	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
2G63	202055200035	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
	202055200183	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 2U2 PM10 R
2G65	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G66	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
2G72	202055200005	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
	202055200027	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	CER2 0603 X5R 6V3 4U7 PM10 R
3G40	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G41	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G42	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G43	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G44	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G45	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G46	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
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3G48	319803106890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 68R PM5 COL
3G49	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G50	319803106890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 68R PM5 COL
3G51	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G52	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G53	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
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3G56	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G60	319803104720	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 4K7 PM5 COL
3G61	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G62	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G63	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G64	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G65	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
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3G67	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
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3G69	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G70	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G71	319803101010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 100R PM5 COL
3G80	319803106890	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 68R PM5 COL
3G81	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G83	319803101030	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 10K PM5 COL
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3G88	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G89	319803104730	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 47K PM5 COL
3G90	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G91	319803101020	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 1K PM5 COL
3G92	319803102230	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 22K PM5 COL

## B16

Item Nr.		LCD 37" - 42"	LCD 26" - 32"	PDP 42" - 50"	Description
1J00	242202510771	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CON V 10P M 2.00 PH B
1J01	242202510655	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CON V 11P M 2.00 PH B
1J02	242202510772	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CON V 12P M 2.00 PH B
1J03	242202510768	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CON V 3P M 2.00 PH B
1J07	242208611081	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	FUSE SM T 3A 125V UL R
1J08	242254945333	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R
2J18	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2J19	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2J22	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2J23	319803401010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	CER1 0402 NP0 50V 100P COL
2J31	319803401010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	CER1 0402 NP0 50V 100P COL
3J03	319803106890	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RST SM 0402 68R PM5 COL
3J04	319803106890	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	RST SM 0402 68R PM5 COL
4J01	319803190010	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	RST SM 0402 JUMP. 0R05 COL
5J04	242254945333	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	IND FXD 1206 EMI 100MHZ 120R R

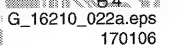


Layout Small Signal Board (Top Side Overview)



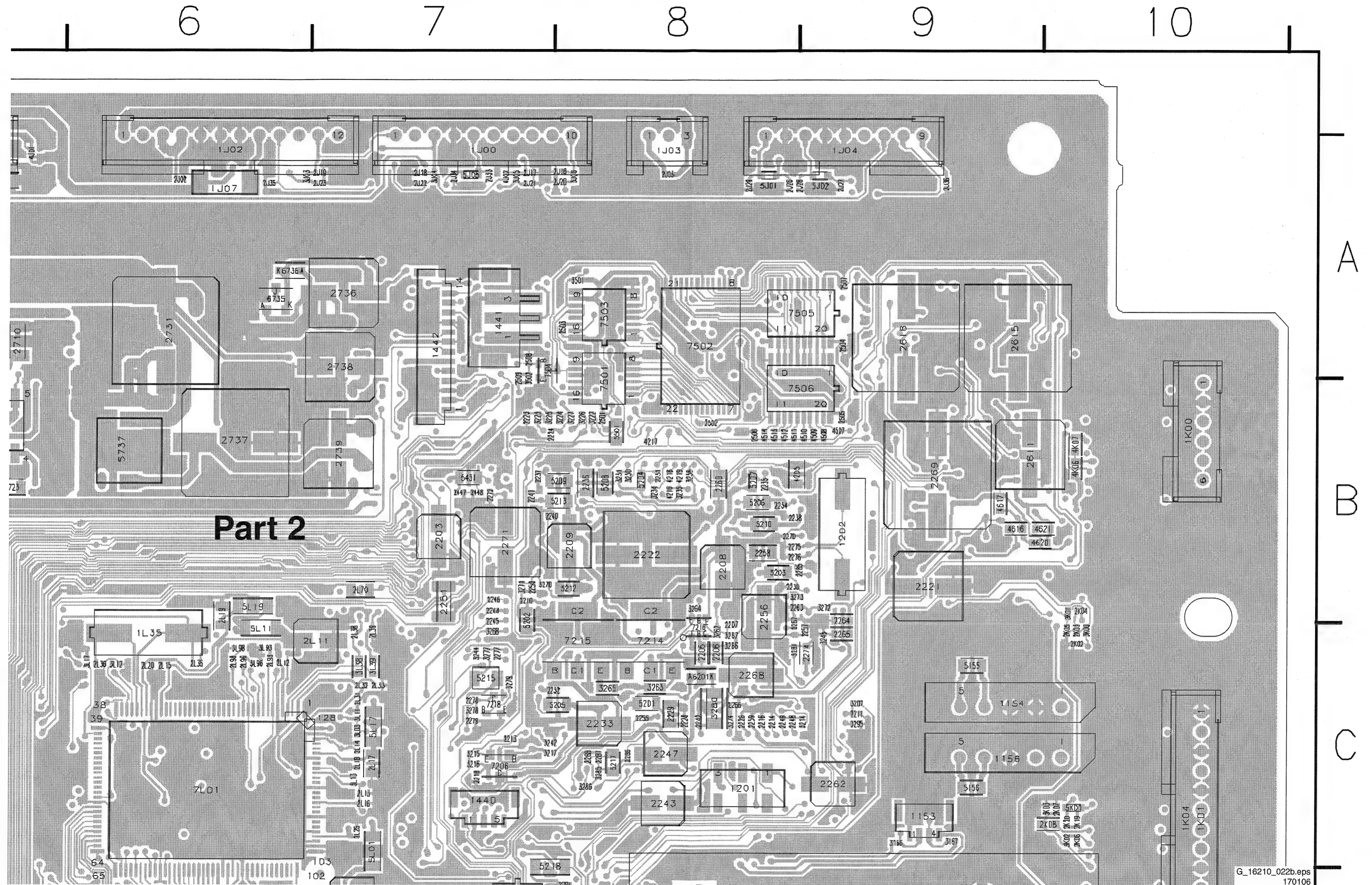


A horizontal number line with tick marks at 1, 2, 3, 4, and 5. The numbers are placed above the tick marks.



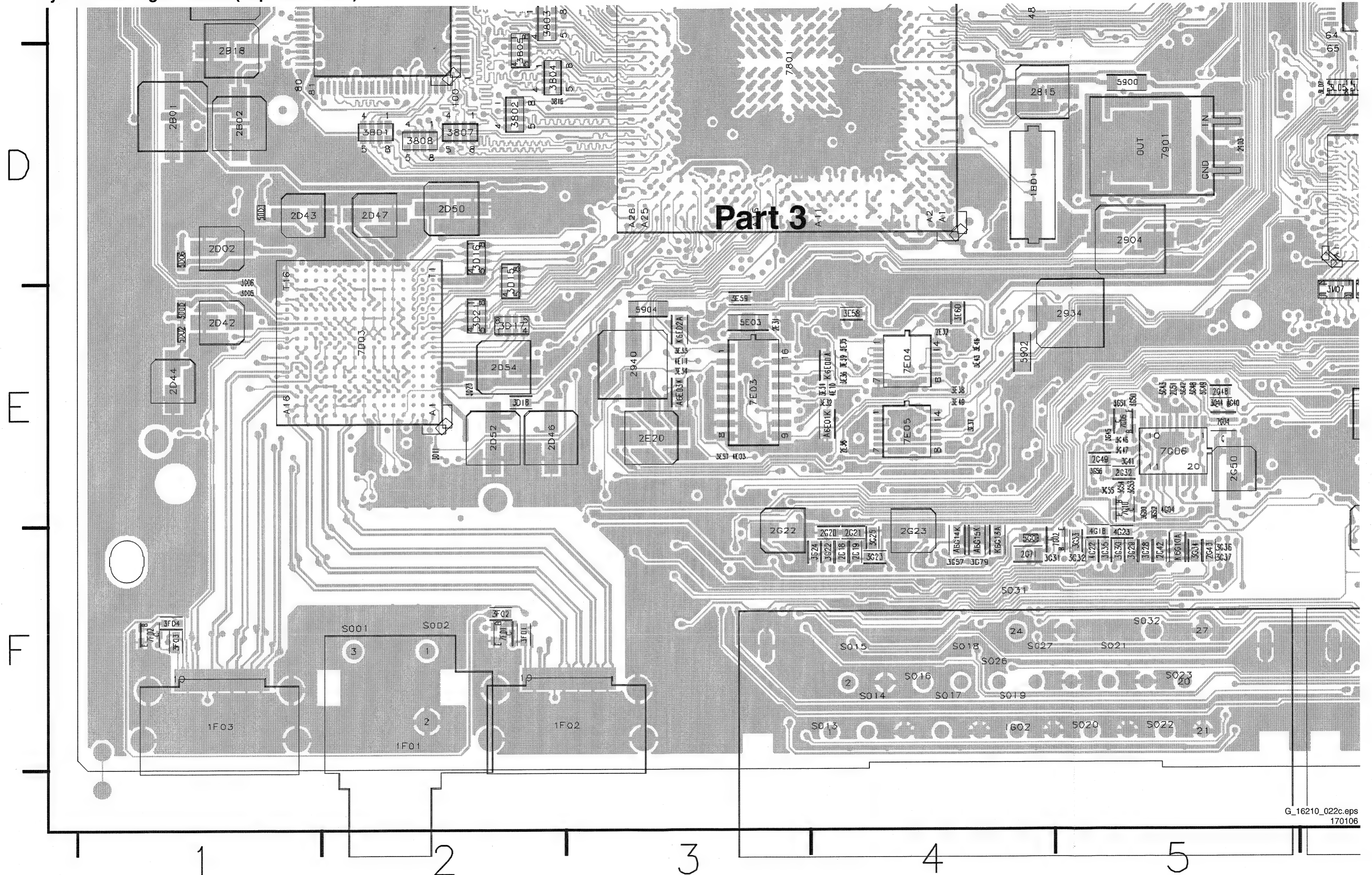


## Layout Small Signal Board (Top Side Part 2)



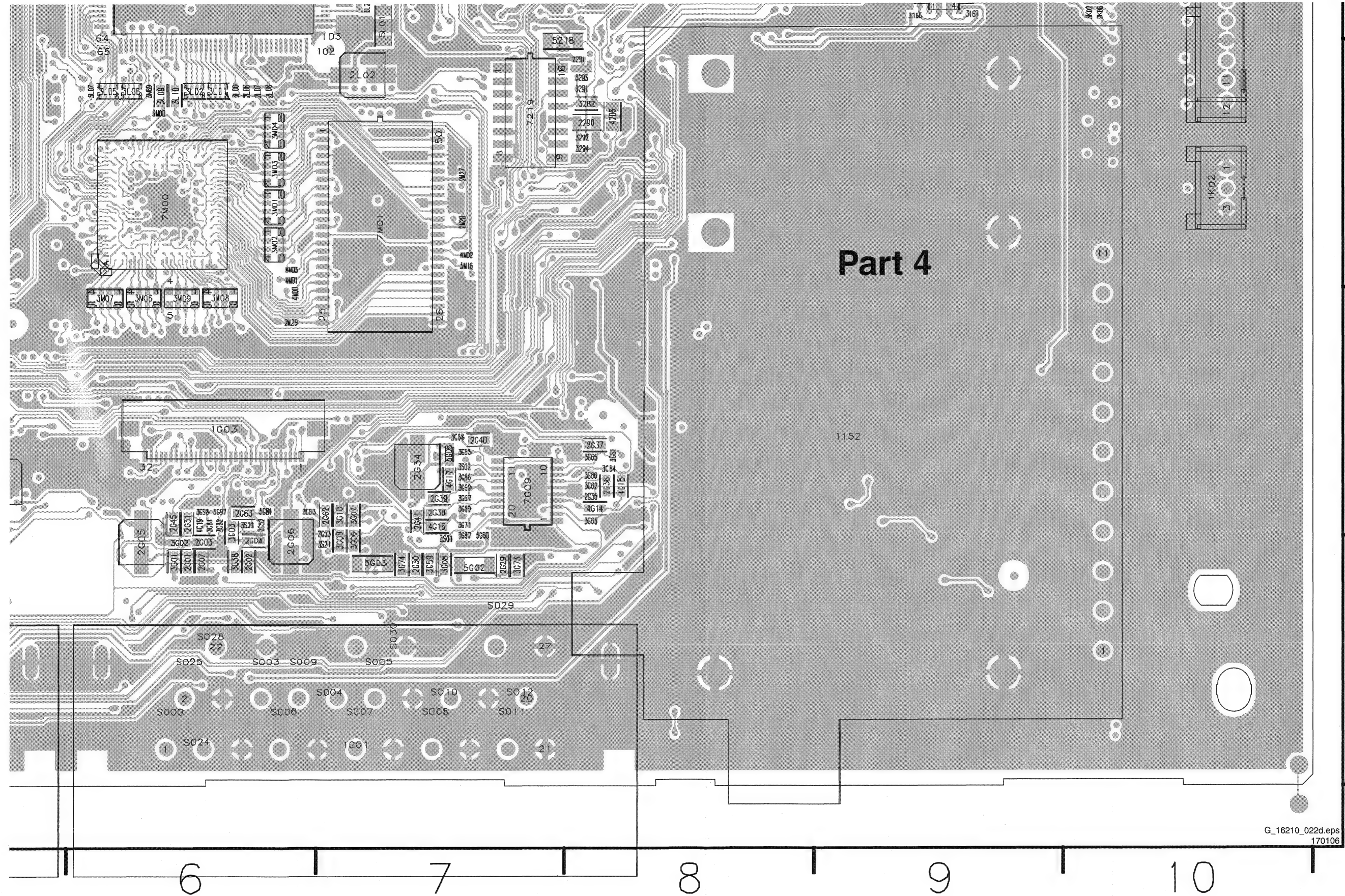


## Layout Small Signal Board (Top Side Part 3)



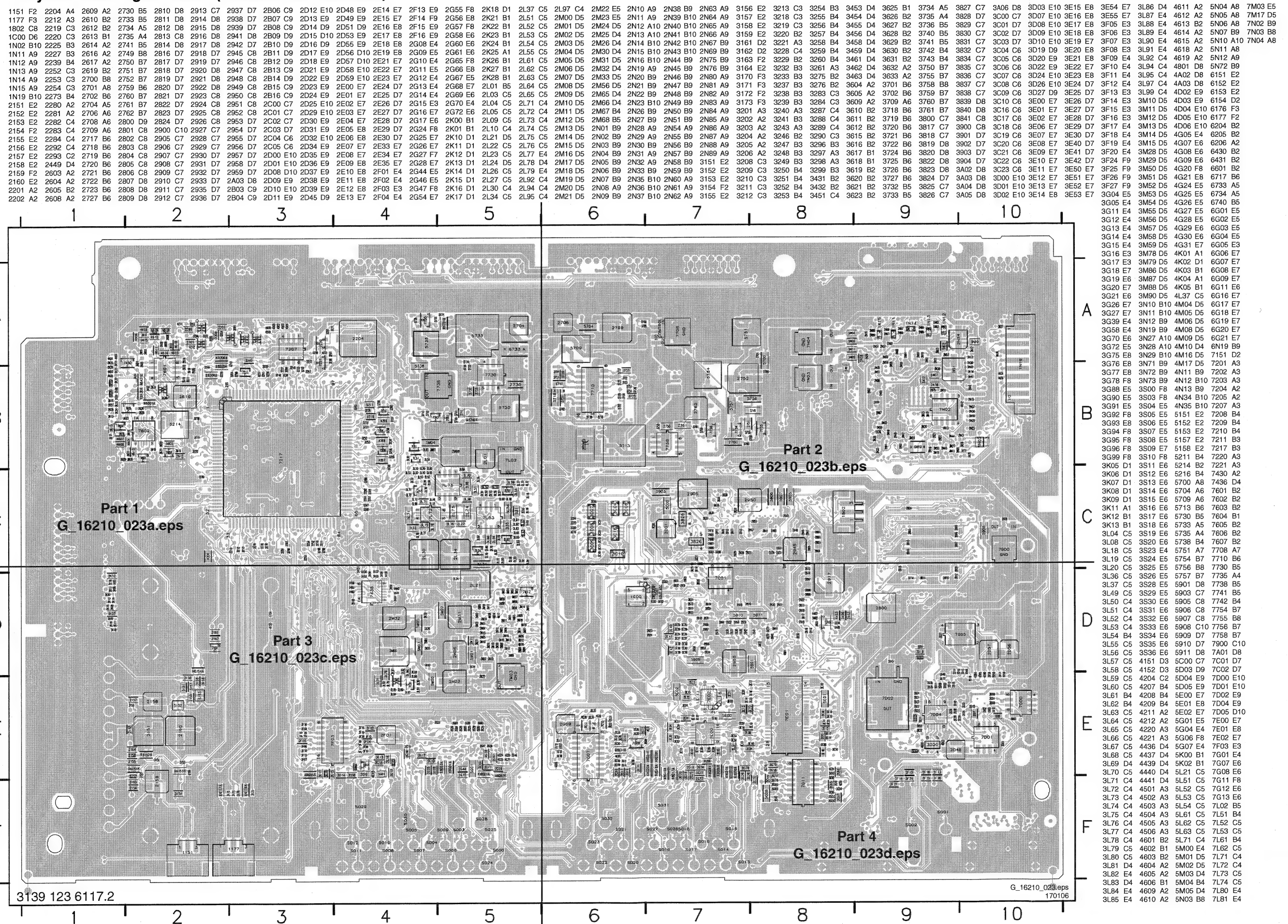


## Part 4



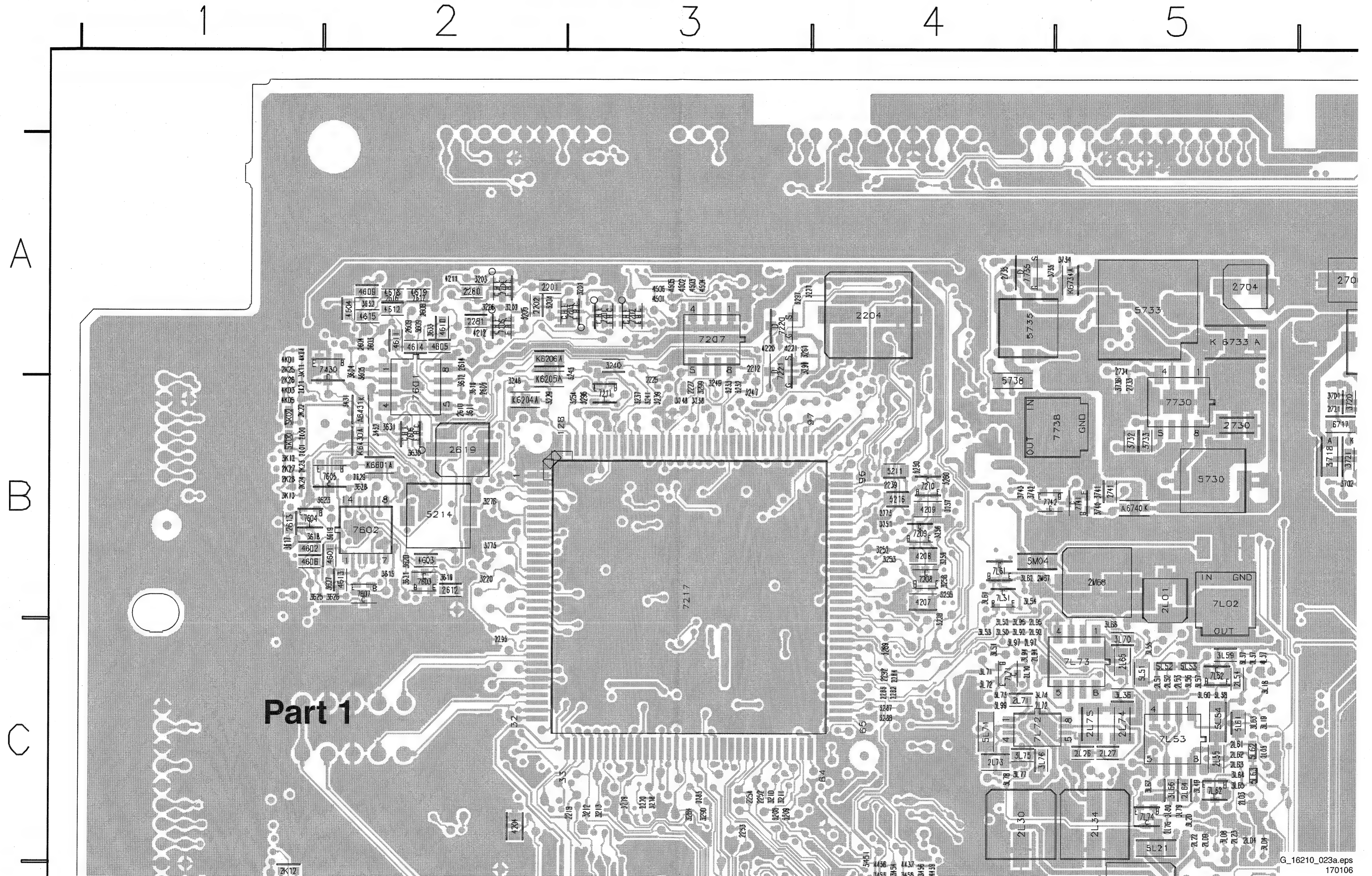


## Layout Small Signal Board (Bottom Side Overview)



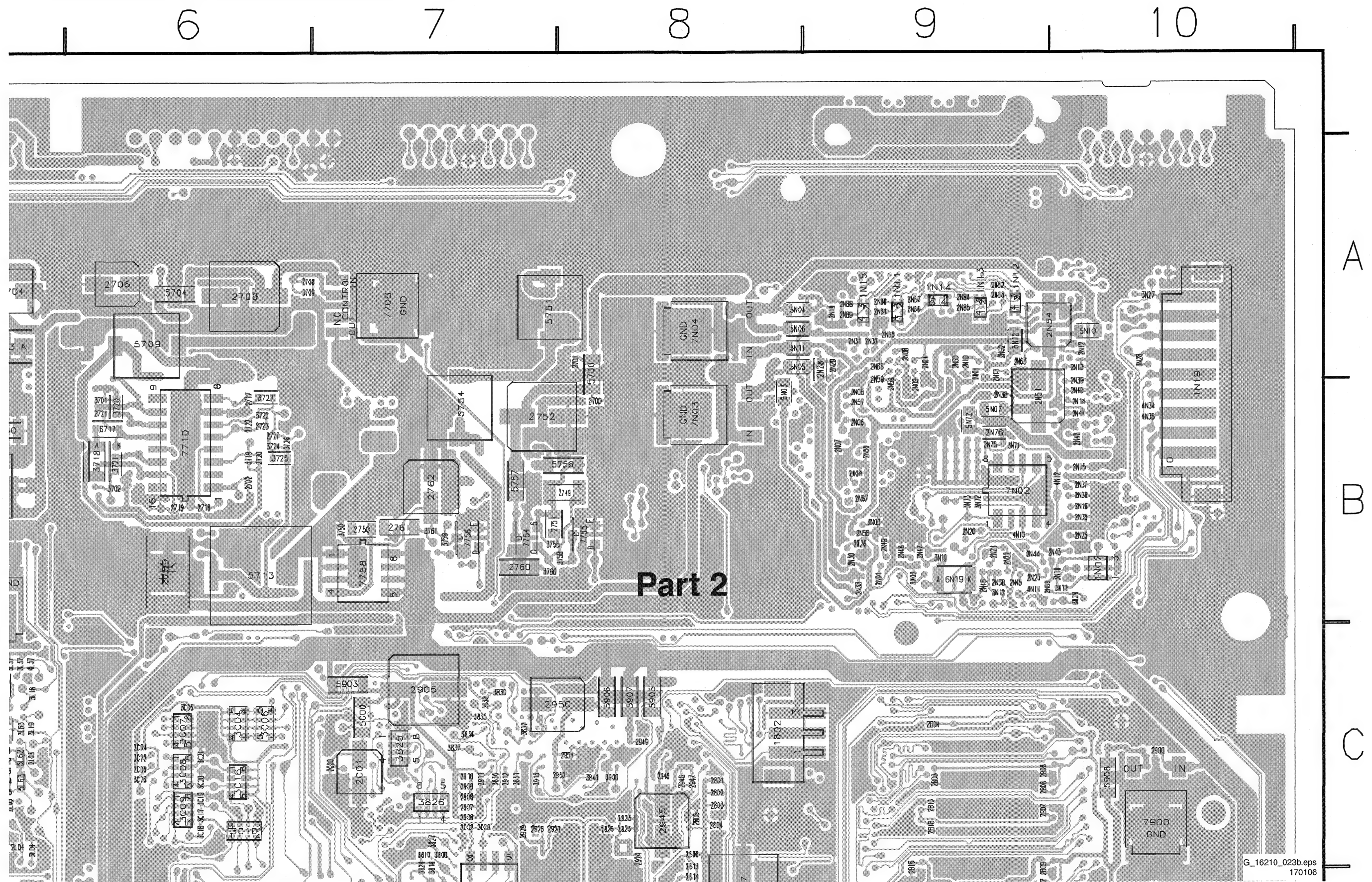


## Layout Small Signal Board (Bottom Side Part 1)



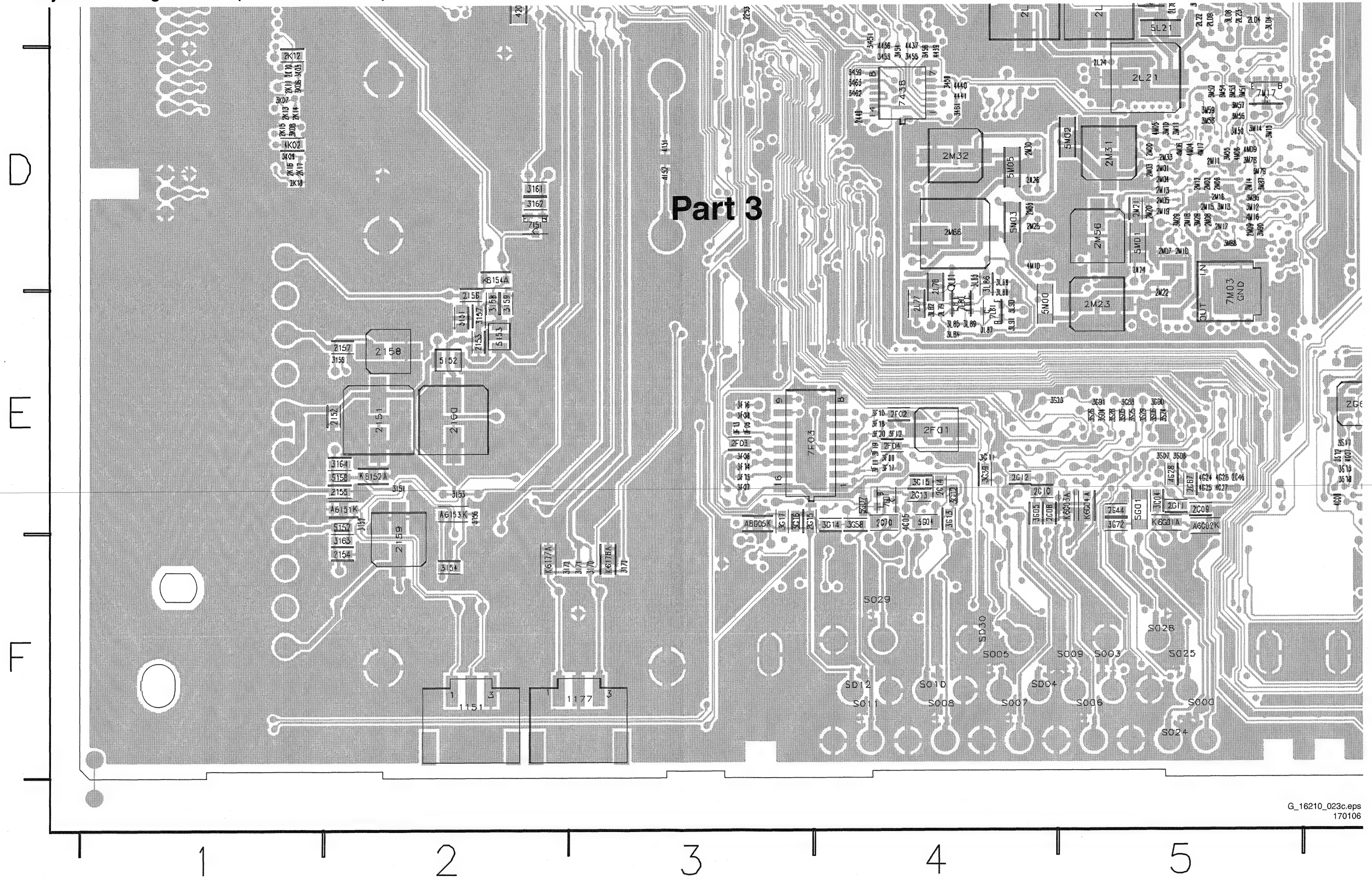


## Layout Small Signal Board (Bottom Side Part 2)



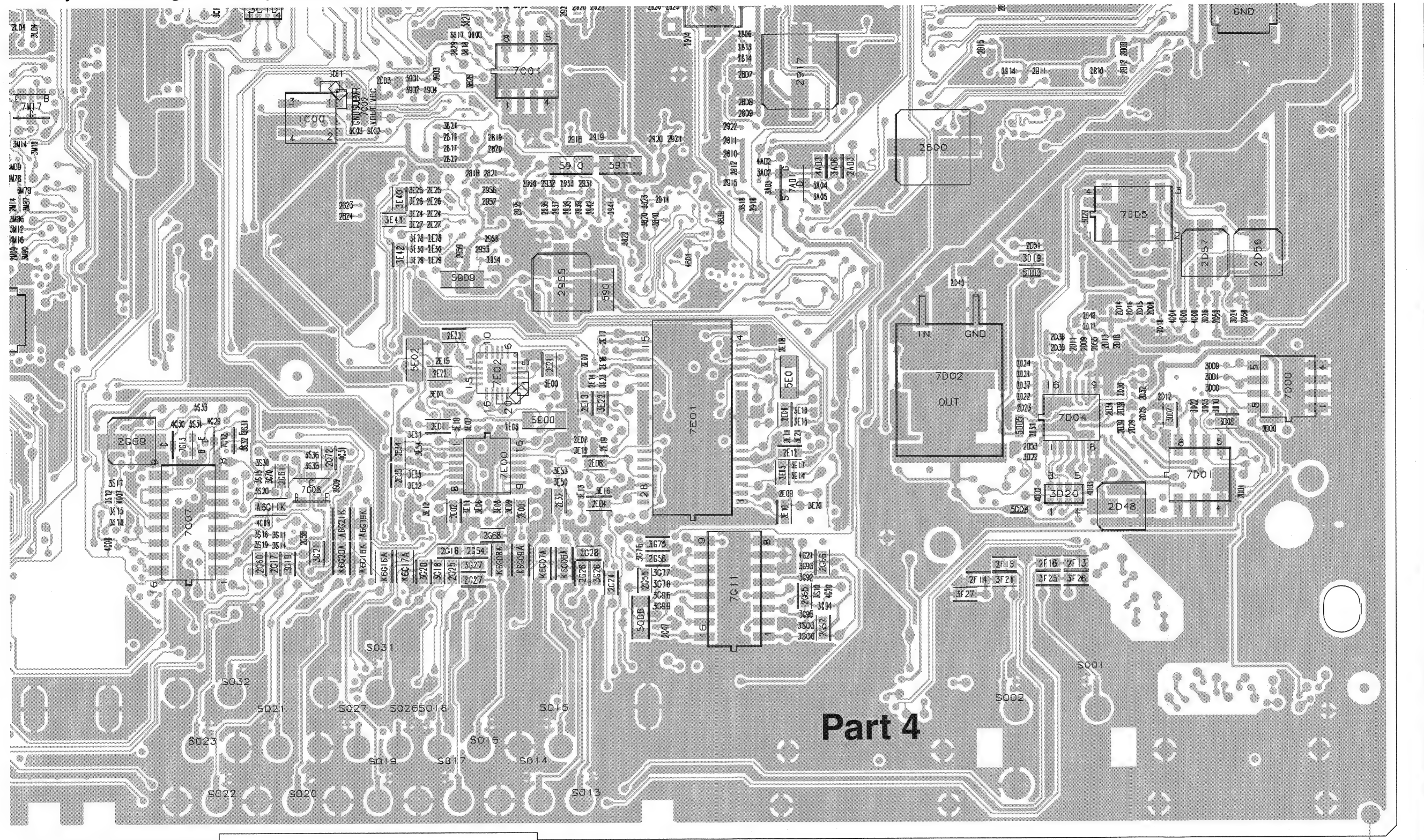


## Layout Small Signal Board (Bottom Side Part 3)





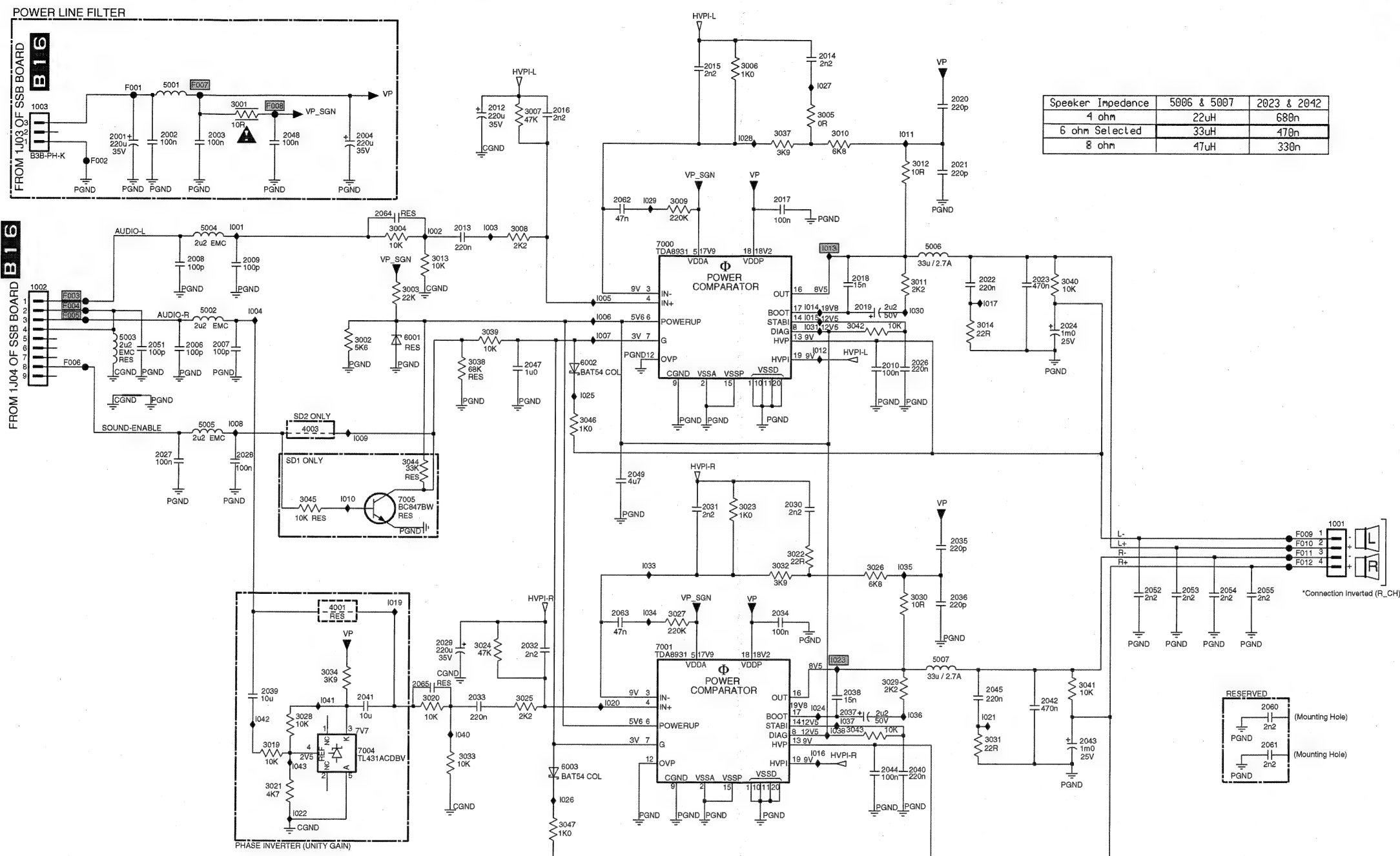
## Layout Small Signal Board (Bottom Side Part 4)





## Class D Audio Amplifier (26" &amp; 32")

## C CLASS D AUDIO AMPLIFIER (26" &amp; 32" ONLY)



3139 123 5970.2

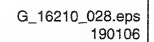
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180106

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2010 C8  
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2013 B5  
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2015 A7  
2016 A6  
2017 B7  
2018 C8  
2019 C8  
2020 A9  
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3047 G6  
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5003 C2  
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6003 F6  
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I1197 F8  
I1198 F8  
I1199 F8  
I1200 F8  
I1201 F8  
I1202 F8  
I1203 F8  
I1204 F8  
I1205 F8  
I1206 F8  
I1207 F8  
I1208 F8  
I1209 F8  
I1210 F8  
I1211 F8  
I1212 F8  
I1213 F8  
I1214 F8  
I1215 F8  
I1216 F8  
I1217 F8  
I1218 F8  
I1219 F8  
I1220 F8  
I1221 F8  
I1222 F8  
I1223 F8  
I1224 F8  
I1225 F8  
I1226 F8  
I1227 F8  
I1228 F8  
I1229 F8  
I1230 F8  
I1231 F8  
I1232 F8  
I1233 F8  
I1234 F8  
I1235 F8  
I1236 F8  
I1237 F8  
I1238 F8  
I1239 F8  
I1240 F8  
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I1268 F8  
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I1296 F8  
I1297 F8  
I1298 F8  
I1299 F



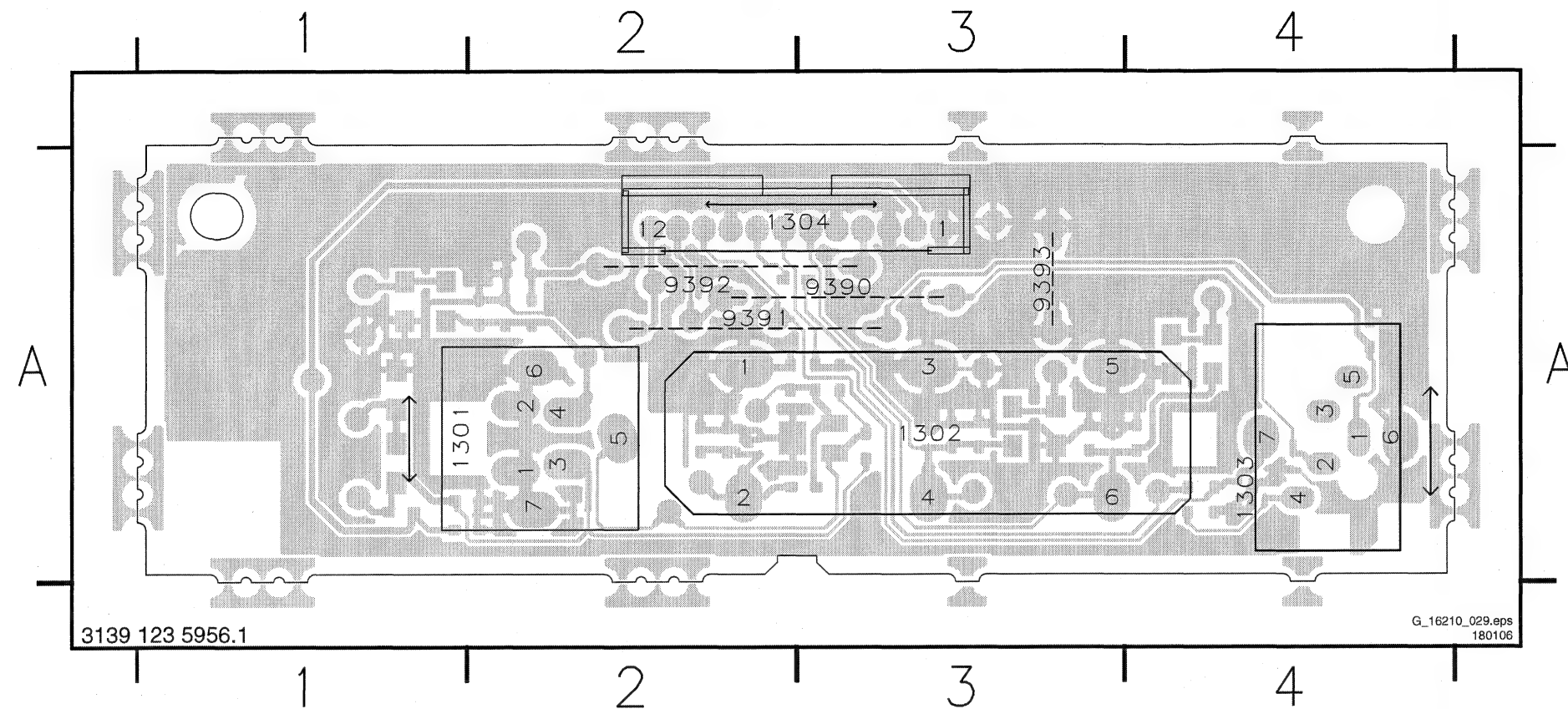
**D** SIDE I/O (26" & 32" ONLY)



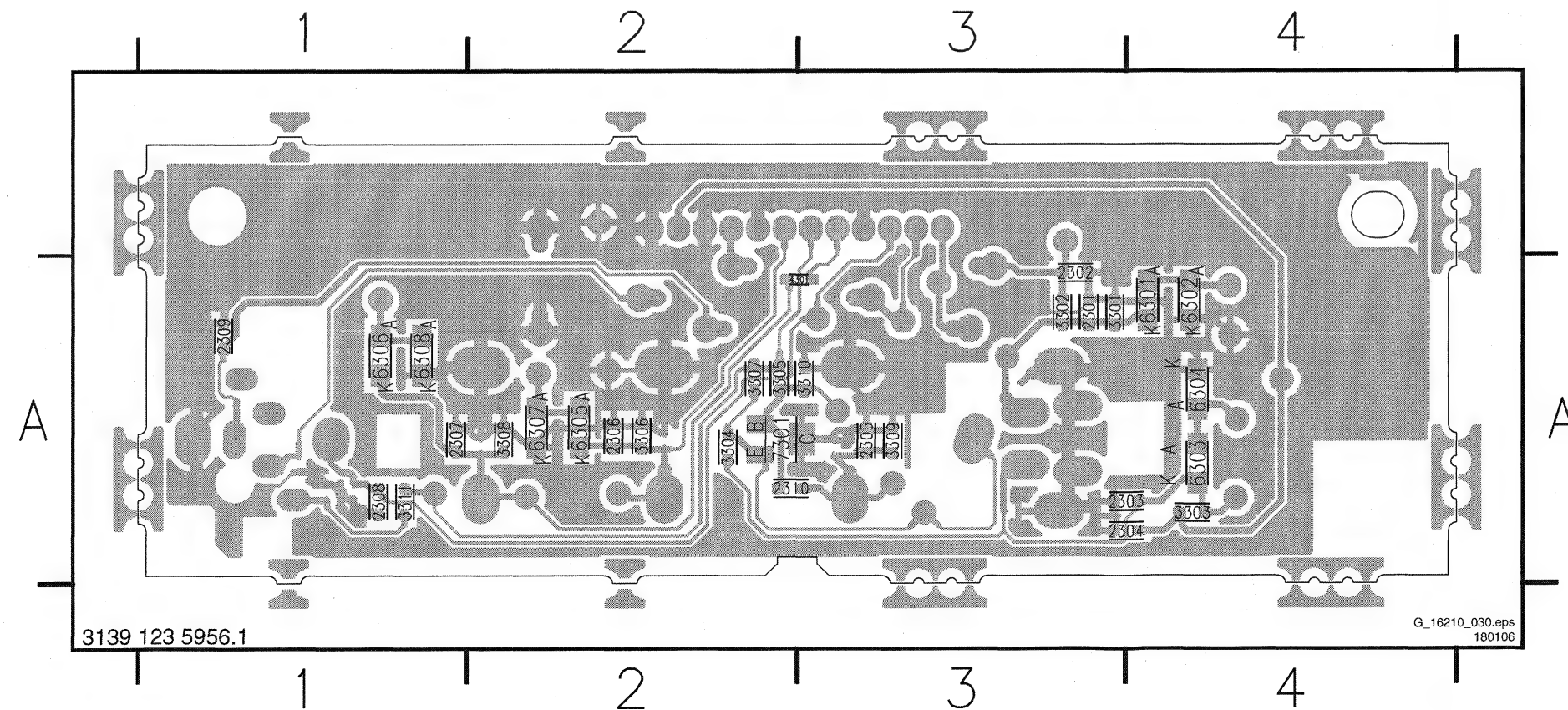


## Layout Side I/O Panel (26" &amp; 32") (Top Side)

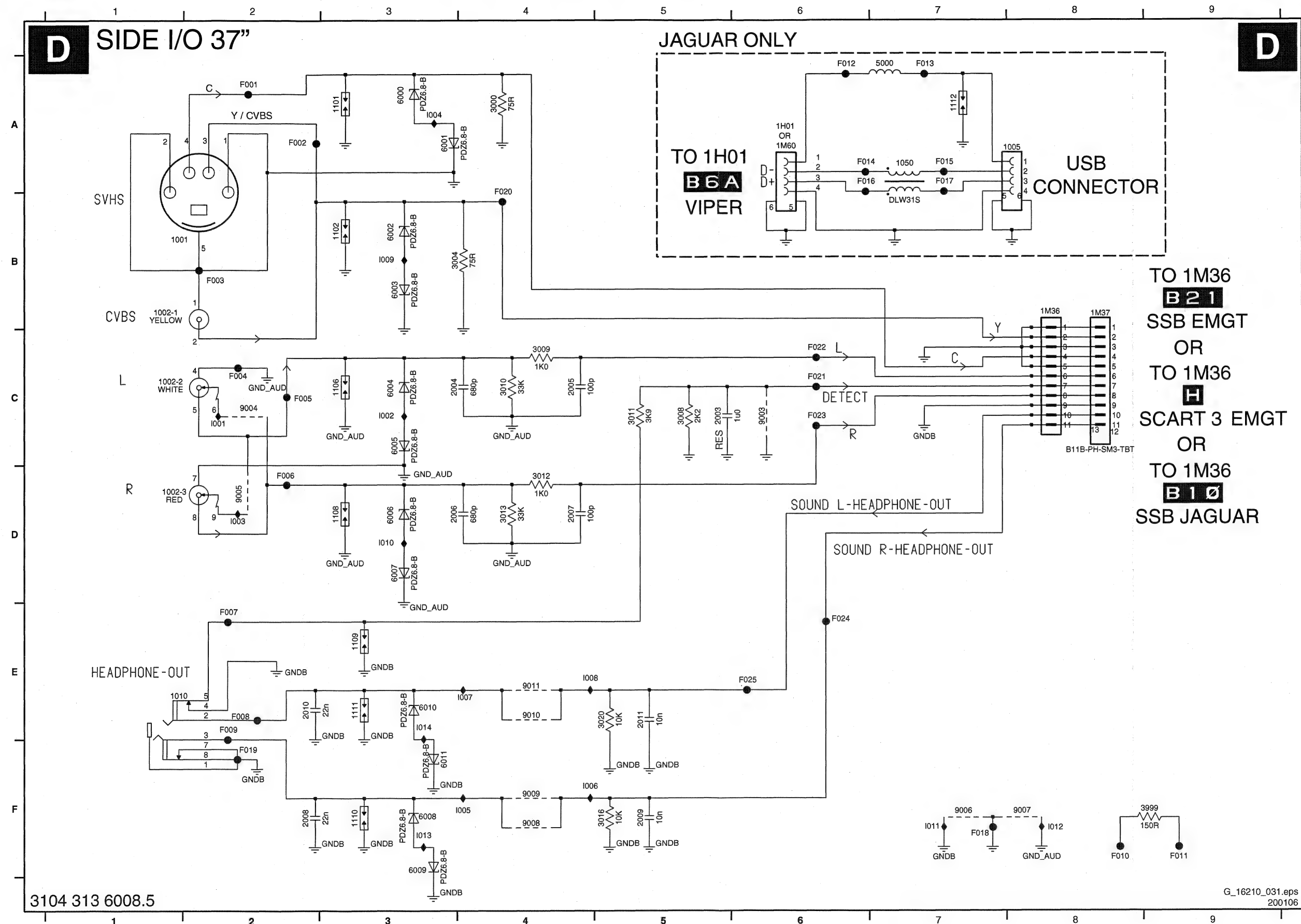
1301 A1 1302 A3 1303 A4 1304 A2 9390 A3 9391 A2 9392 A2 9393 A3



## Layout Side I/O Panel (26" &amp; 32") (Bottom Side)

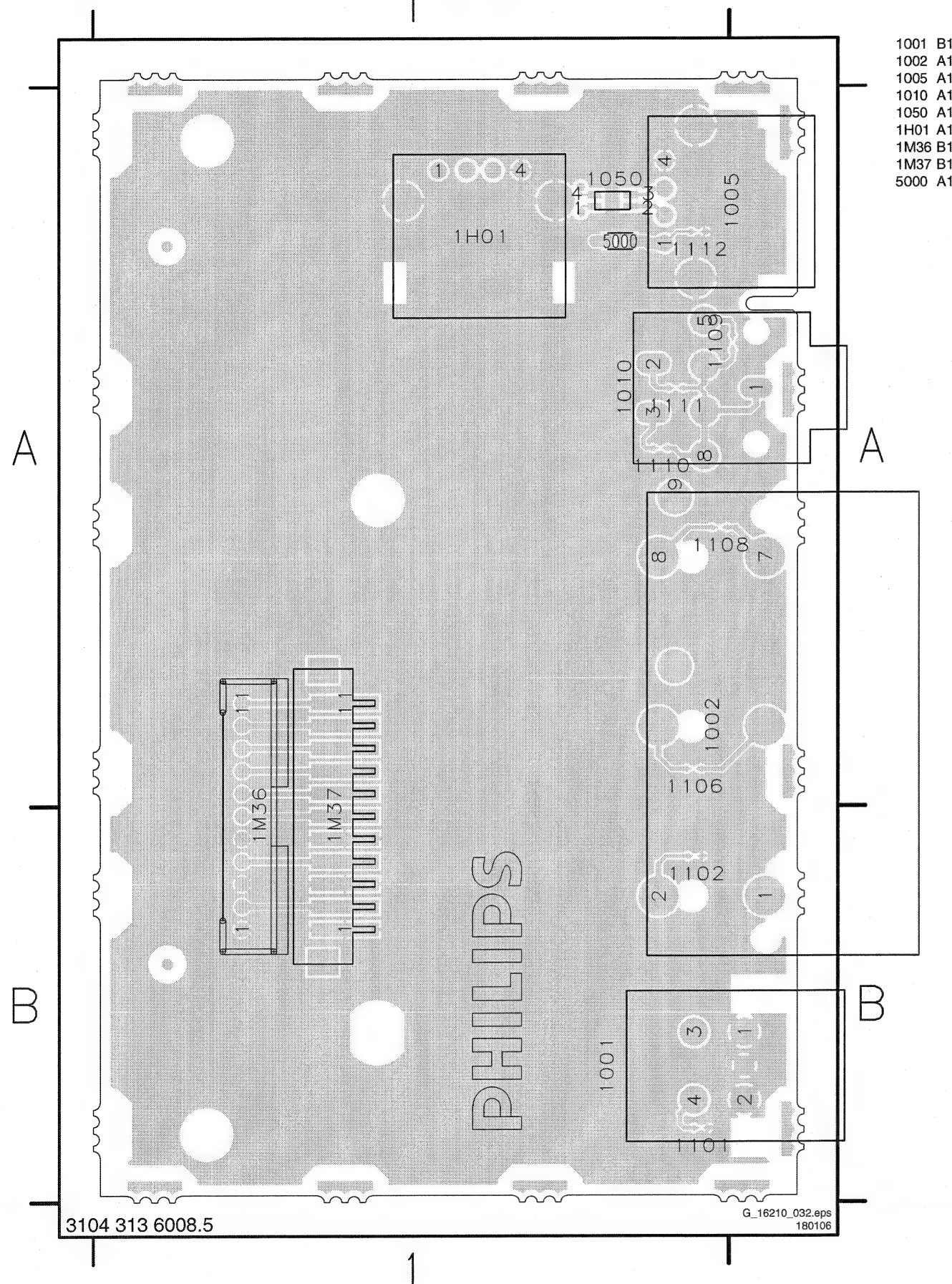
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2302 A3 2305 A3 2308 A1 3301 A3 3304 A2 3307 A2 3310 A3 6301 A4 6304 A4 6307 A2  
2303 A3 2306 A2 2309 A1 3302 A3 3305 A2 3308 A2 3311 A1 6302 A4 6305 A2 6308 A1

## Side I/O Panel (37" &amp; 42")

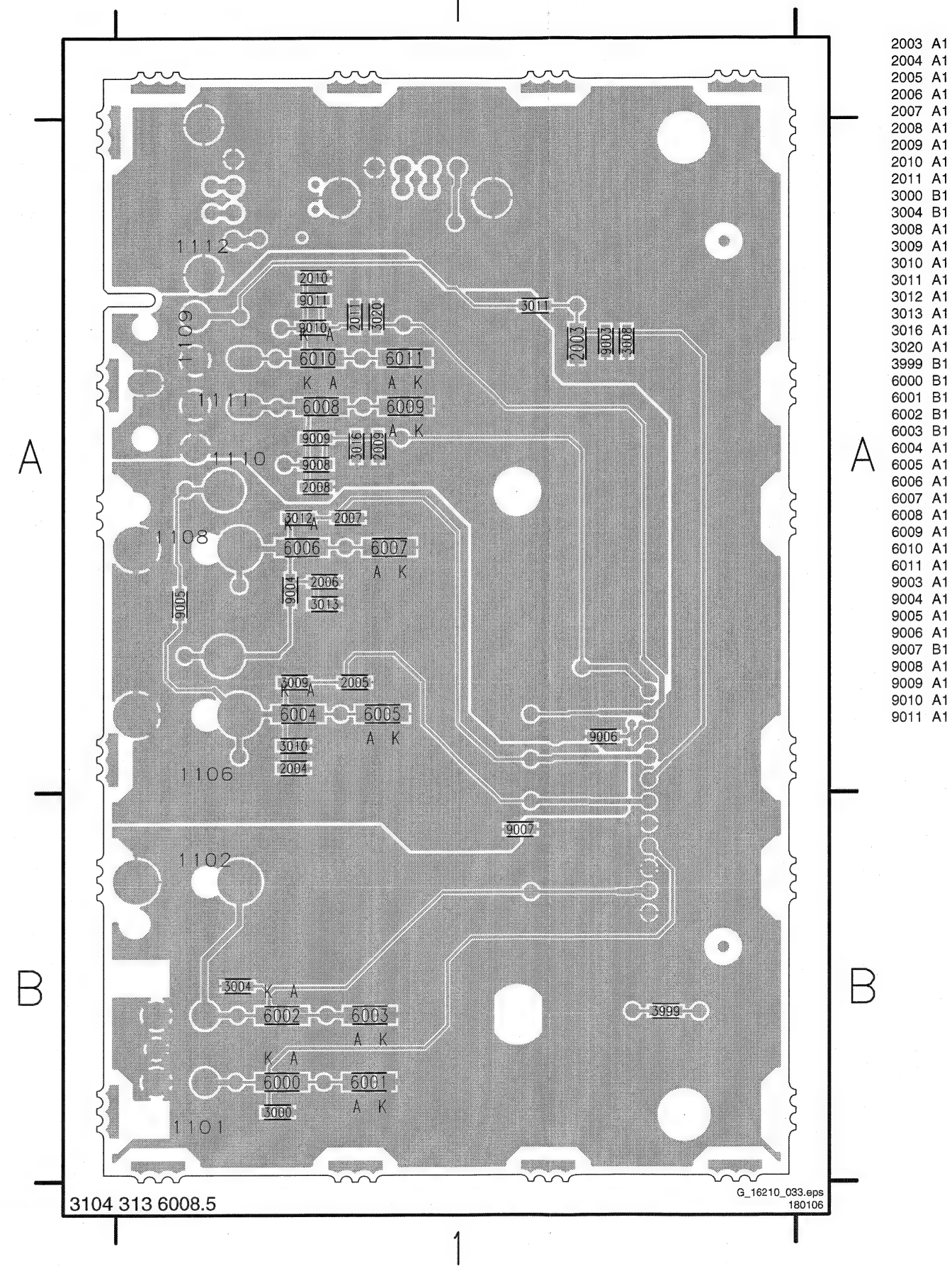




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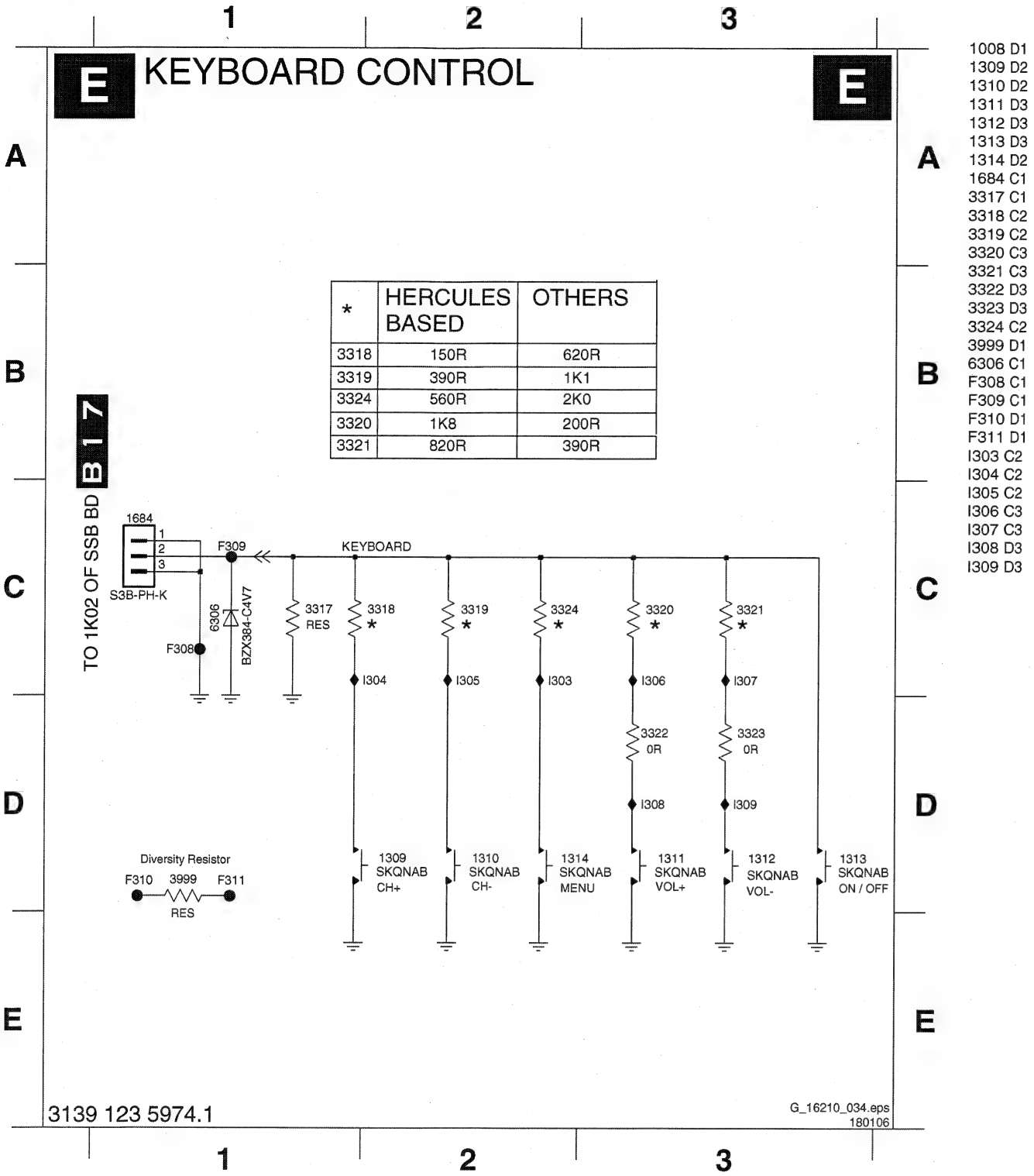


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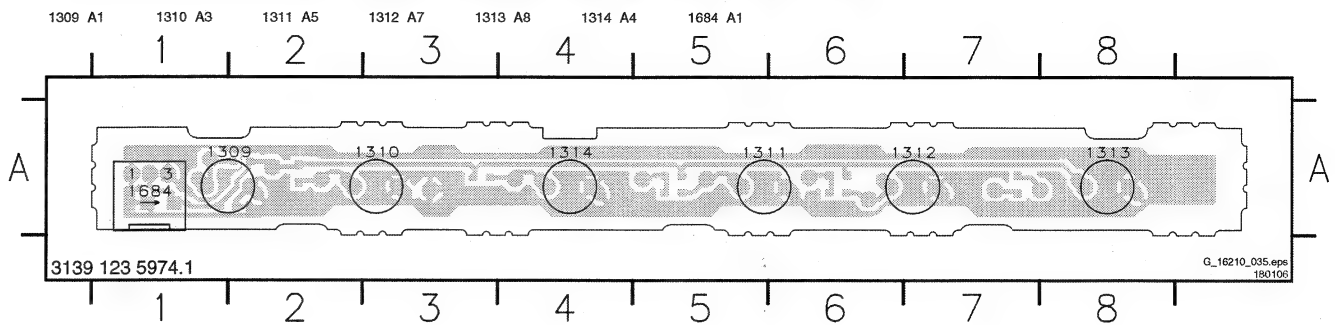


Keyboard Control Board (26" & 32")

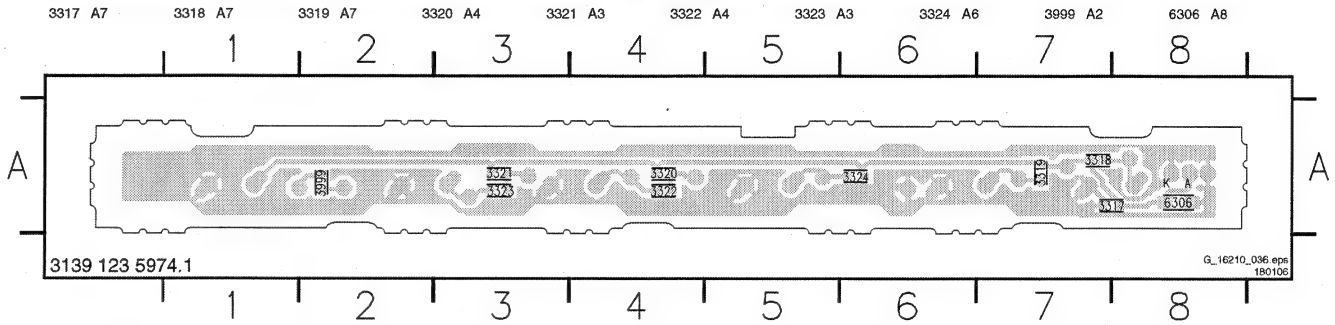


- 1008 D1
- 1309 D2
- 1310 D2
- 1311 D3
- 1312 D3
- 1313 D3
- 1314 D2
- 1684 C1
- 3317 C1
- 3318 C2
- 3319 C2
- 3320 C3
- 3321 C3
- 3322 D3
- 3323 D3
- 3324 C2
- 3999 D1
- 6306 C1
- F308 C1
- F309 C1
- F310 D1
- F311 D1
- I303 C2
- I304 C2
- I305 C2
- I306 C3
- I307 C3
- I308 D3
- I309 D3

Layout Keyboard Control Board (26" & 32") (Top Side)

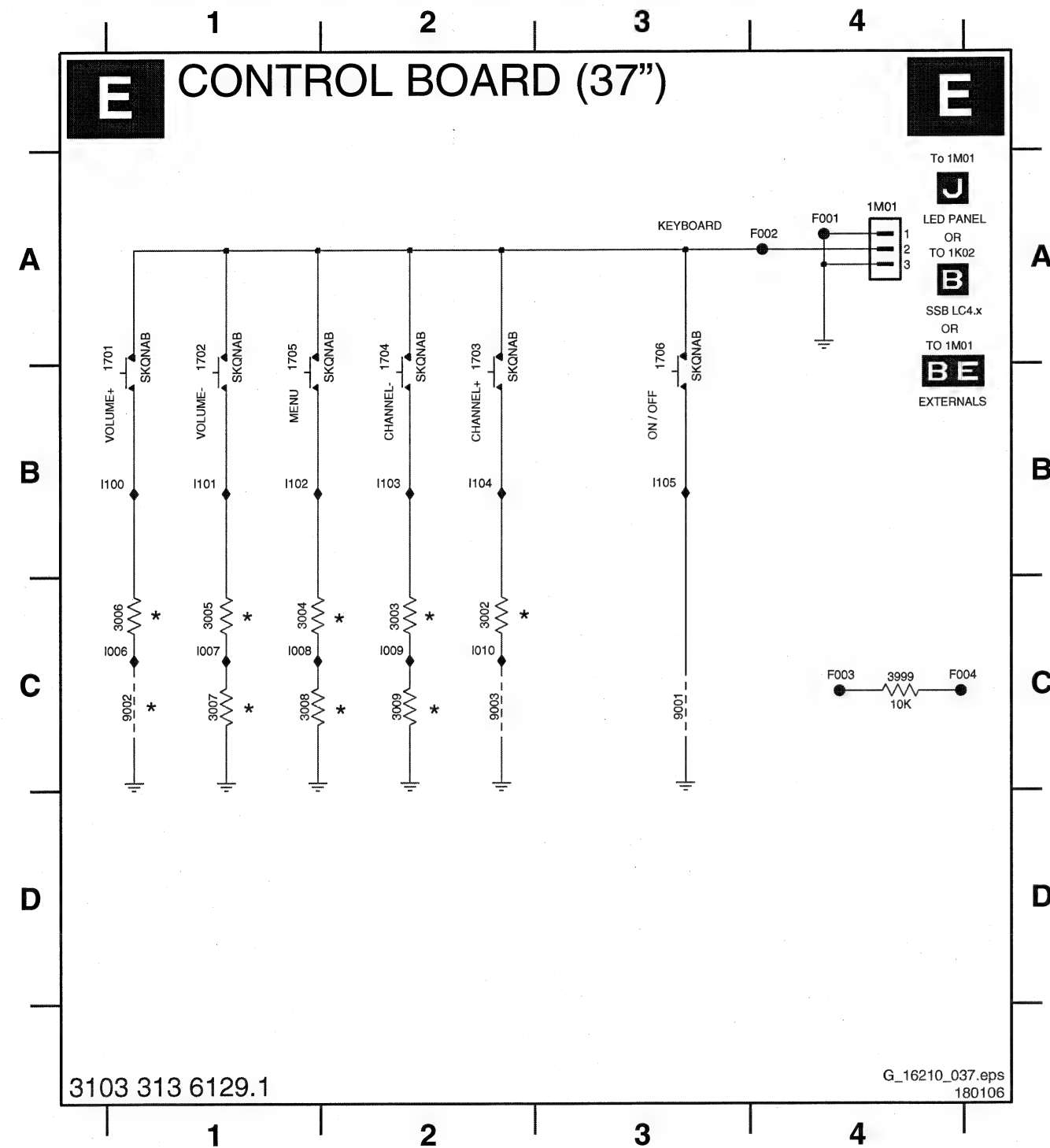


Layout Keyboard Control Board (26" & 32") (Bottom Side)

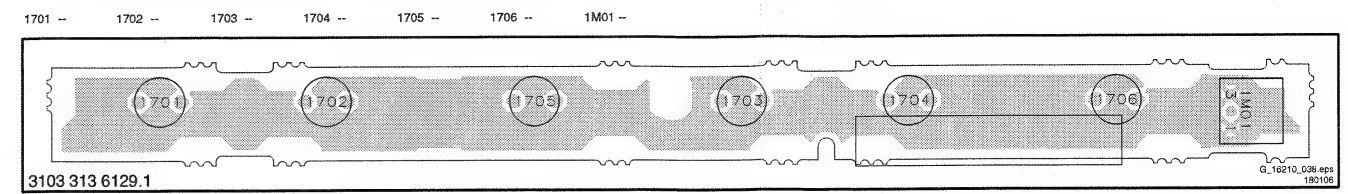


## Keyboard Control Board (37" &amp; 42")

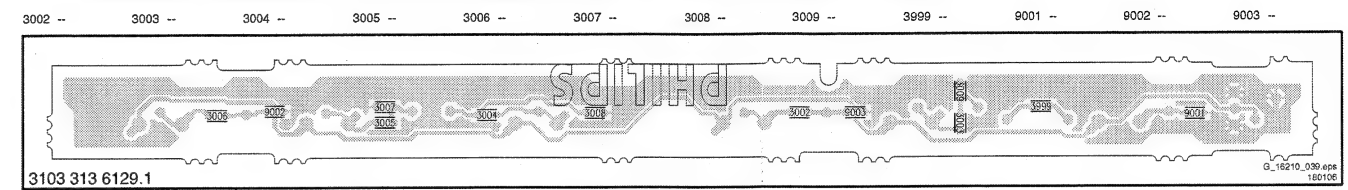
1701 A1	1704 A2	1M01 A4	3004 C1	3007 C1	3999 C4	9003 C2	F003 C4	I007 C1	I010 C2	I102 B1	I105 B3
1702 A1	1705 A1	3002 C2	3005 C1	3008 C1	9001 C3	F001 A4	F004 C4	I008 C1	I100 B1	I103 B2	
1703 A2	1706 A3	3003 C2	3006 C1	3009 C2	9002 C1	F002 A4	I006 C1	I009 C2	I101 B1	I104 B2	



## Layout Keyboard Control Board (37" &amp; 42") (Top Side)

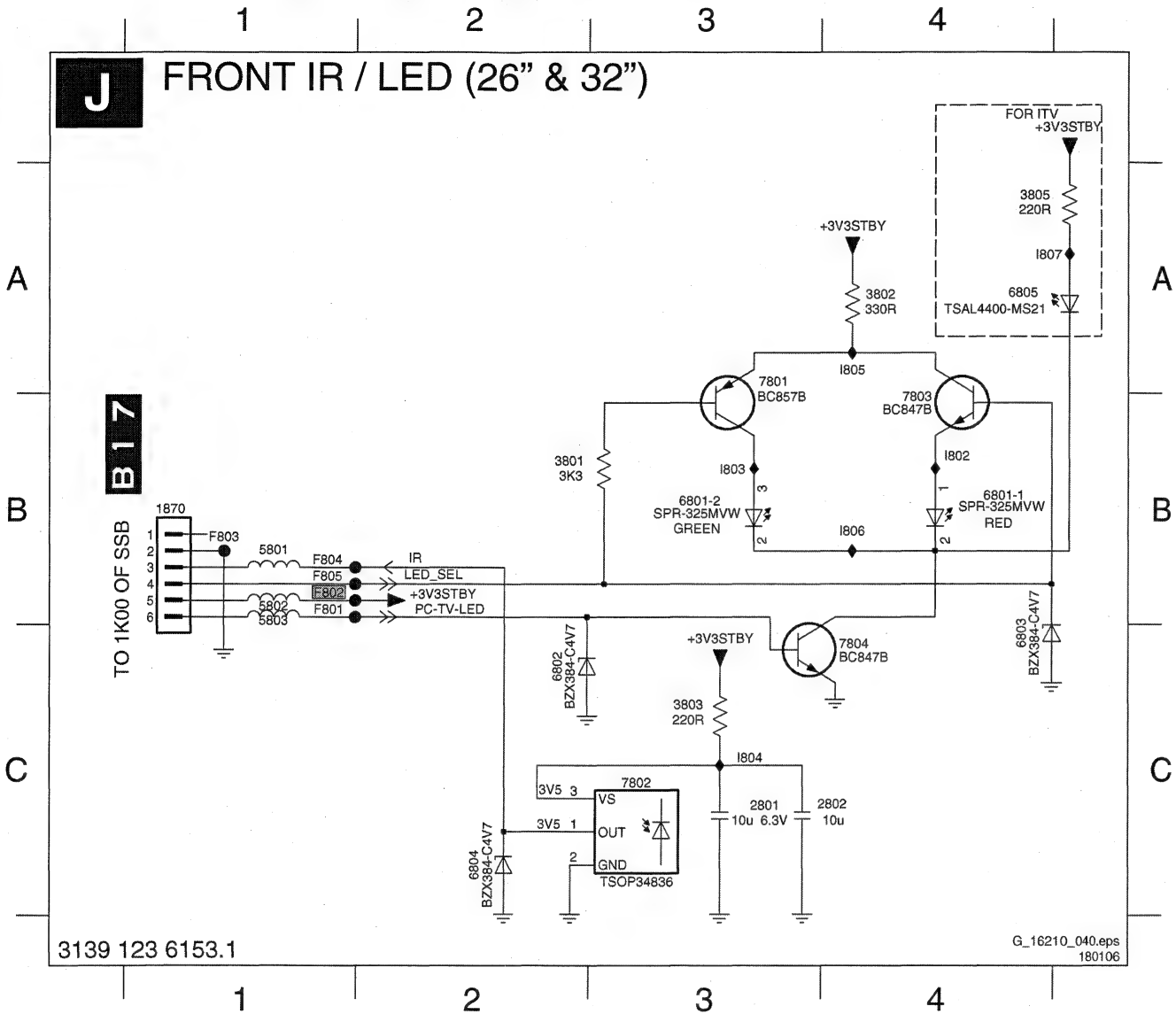


## Layout Keyboard Control Board (37" &amp; 42") (Bottom Side)



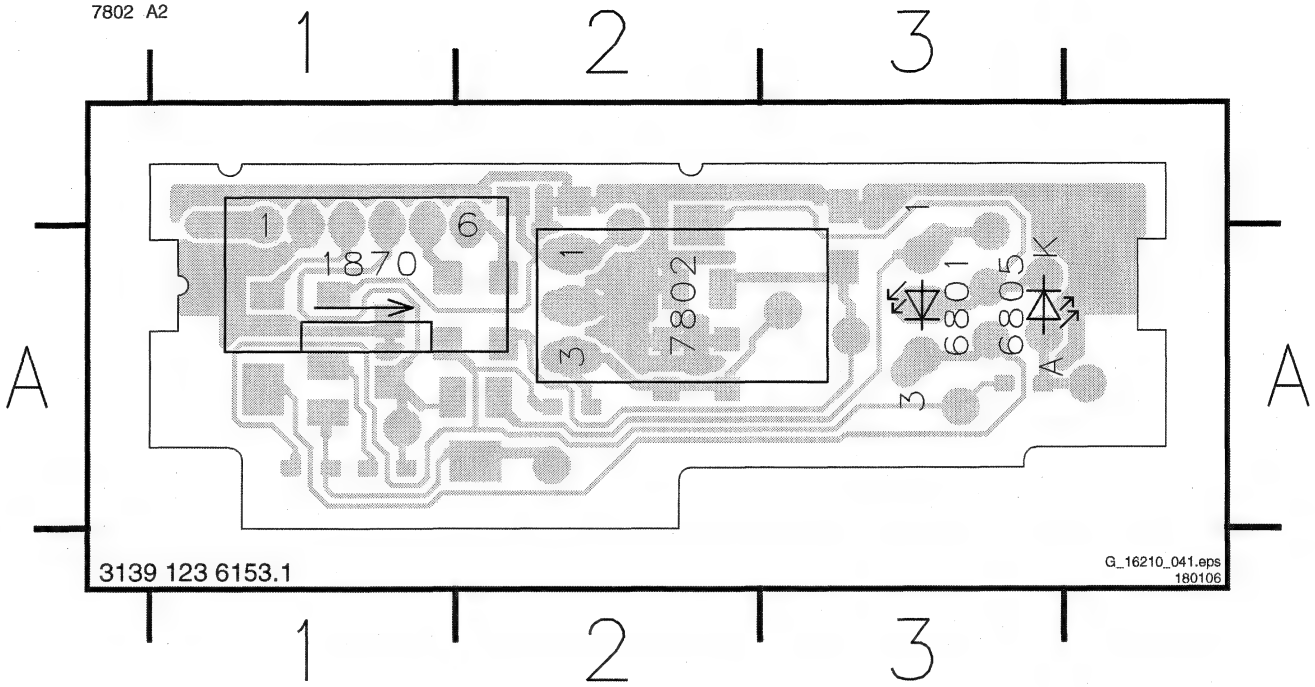
Front IR / LED Panel (26" & 32") (ME5P)

1870 B1	3802 A4	5802 B1	6802 C2	7801 A3	F801 B1	F805 B1	I805 A4
2801 C3	3803 C3	5803 C1	6803 C4	7802 C3	F802 B1	I802 B4	I806 B4
2802 C4	3805 A4	6801-1 B4	6804 C2	7803 B4	F803 B1	I803 B3	I807 A4
3801 B2	5801 B1	6801-2 B3	6805 A4	7804 C4	F804 B1	I804 C3	



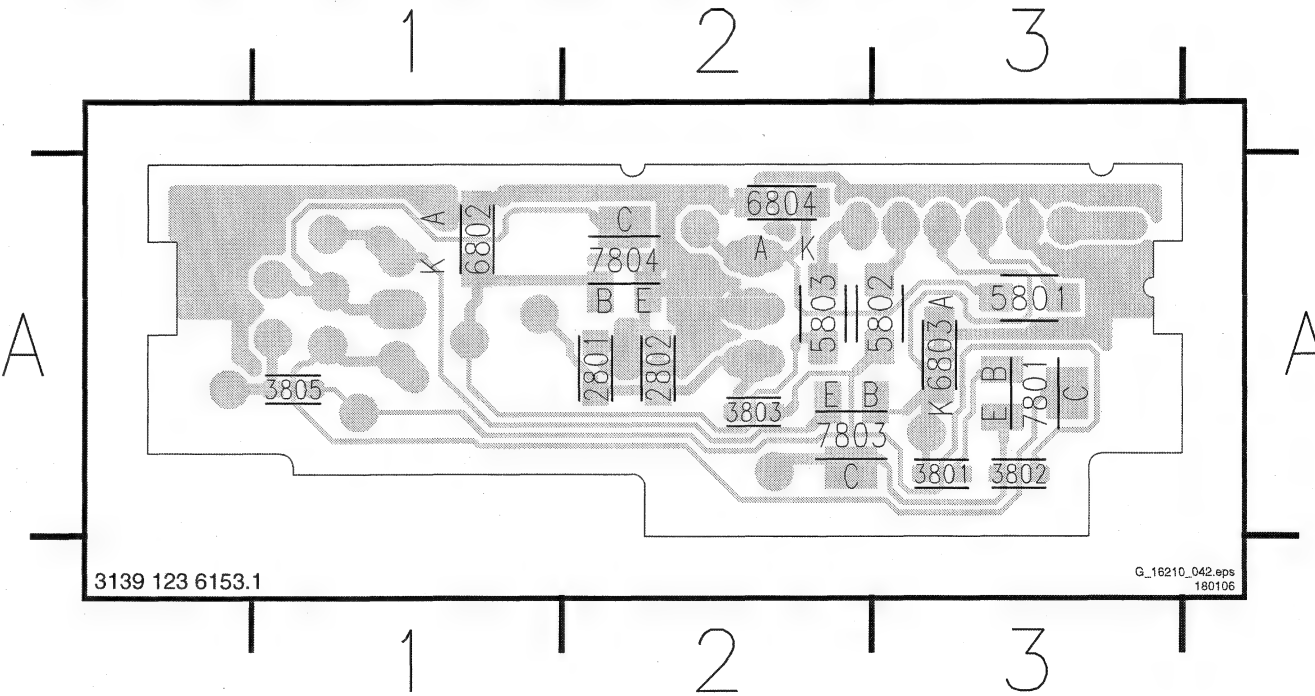
Layout Front IR / LED Panel (26" & 32") (ME5P) (Top Side)

1870 A1
6801 A3
6805 A3
7802 A2



Layout Front IR / LED Panel (26" & 32") (ME5P) (Bottom Side)

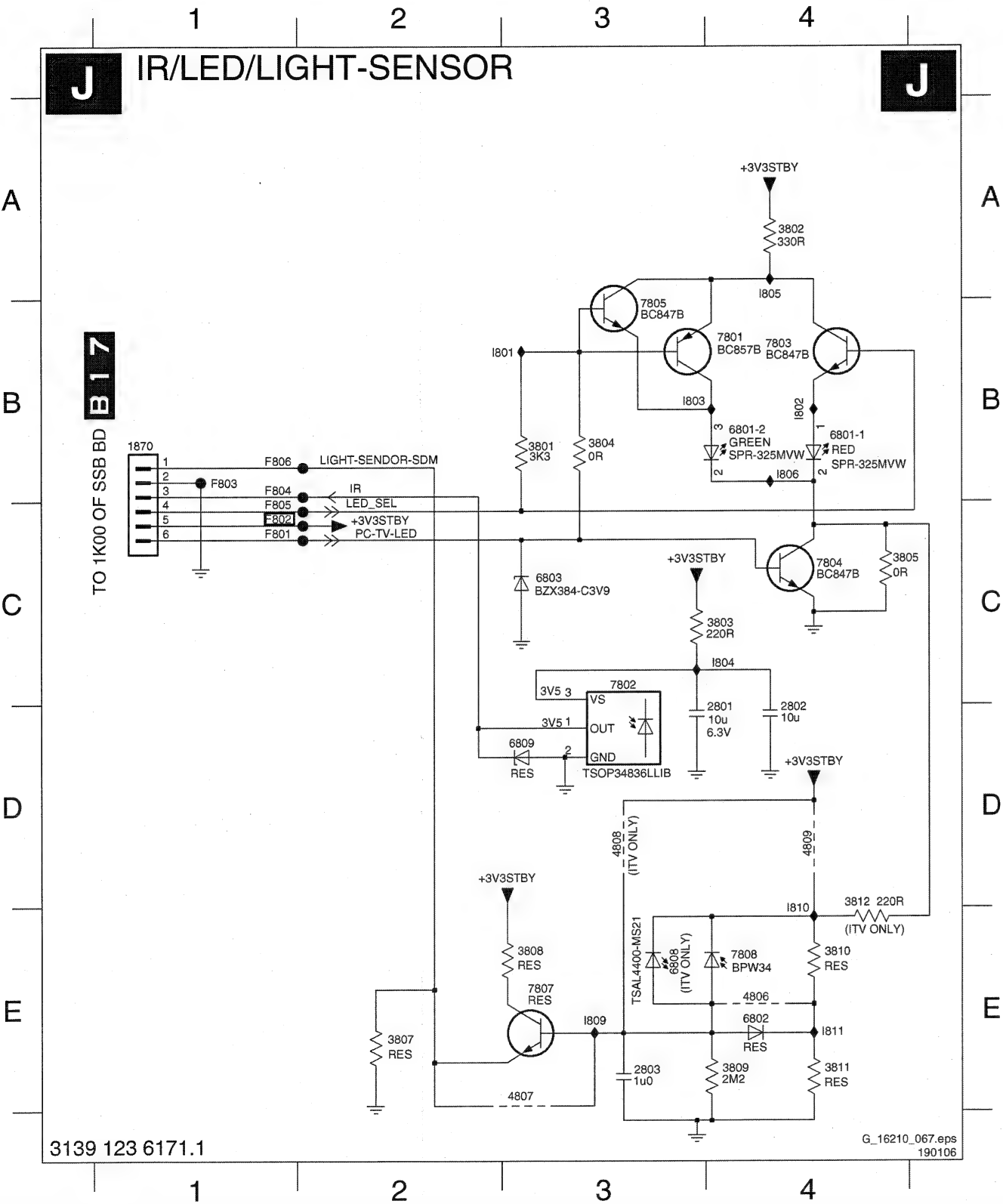
2801 A2	3801 A3	3803 A2	5801 A3	5803 A2	6803 A3	7801 A3	7804 A2
2802 A2	3802 A3	3805 A1	5802 A3	6802 A1	6804 A2	7803 A2	



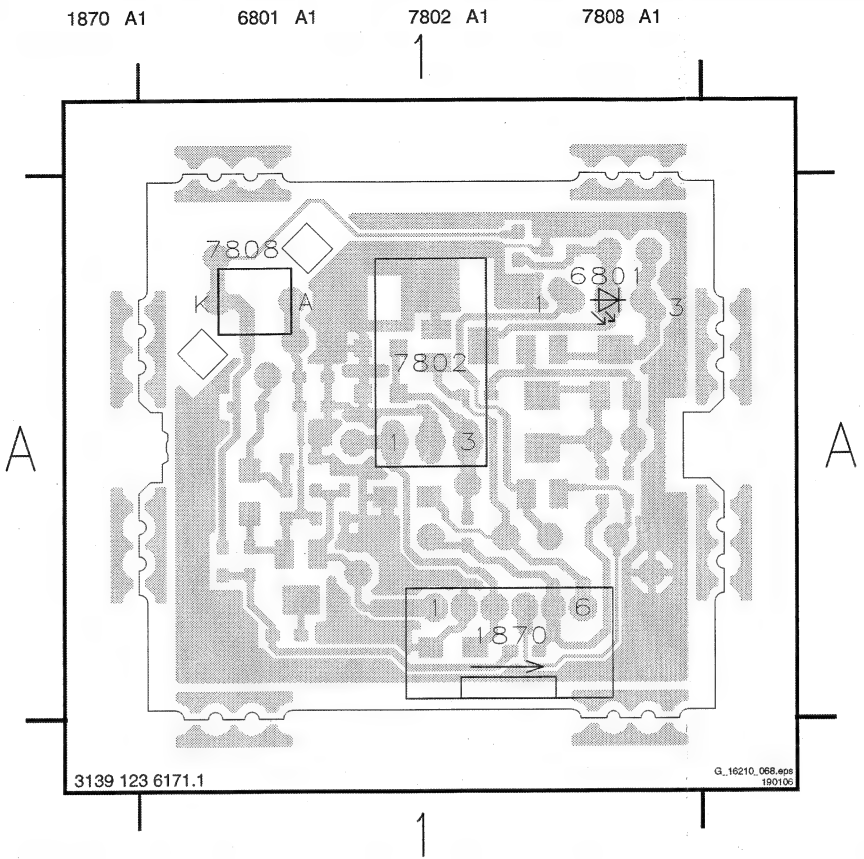


IR-LED and Light Sensor Panel (26" & 32")

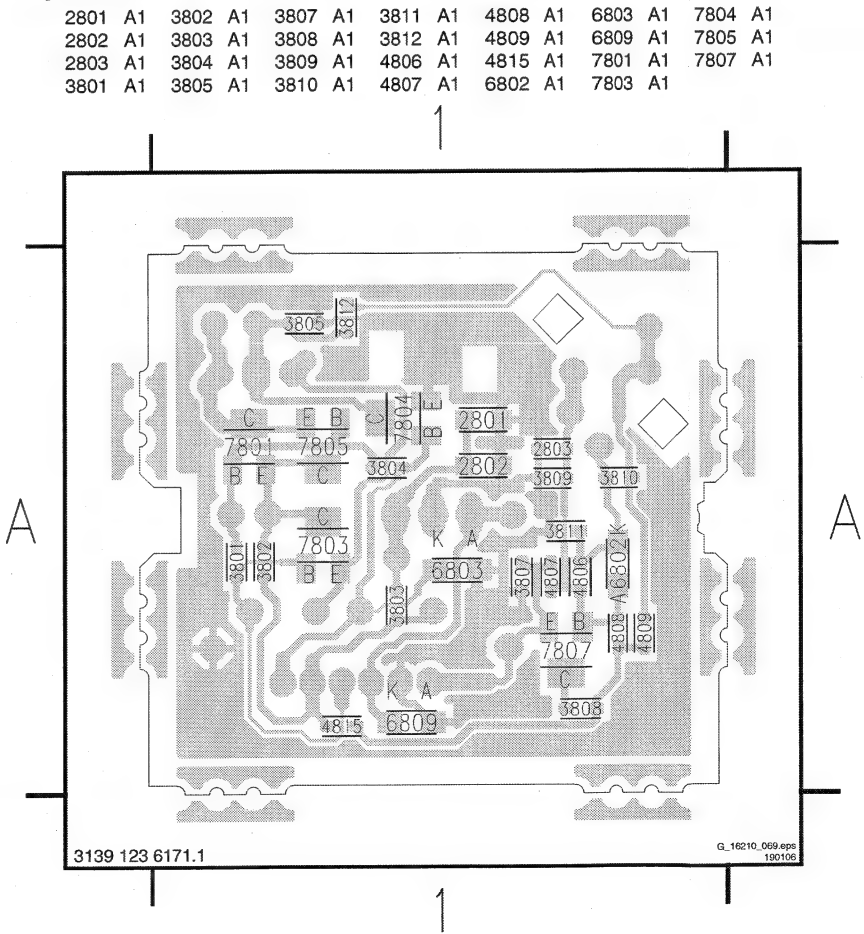
1870 B1	3802 A4	3808 E3	4806 E4	6801-2 B4	7802 C3	7808 E4	F805 C1	I804 C4	I811 E4
2801 D4	3803 C4	3809 E4	4807 E3	6802 E4	7803 B4	F801 C1	F806 B1	I805 A4	
2802 D4	3804 B3	3810 E4	4808 D3	6803 C3	7804 C4	F802 C1	I801 B3	I806 B4	
2803 E3	3805 C4	3811 E4	4809 D4	6809 D3	7805 B3	F803 B1	I802 B4	I809 E3	
3801 B3	3807 E2	3812 D4	6801-1 B4	7801 B4	7807 E3	F804 B1	I803 B3	I810 E4	



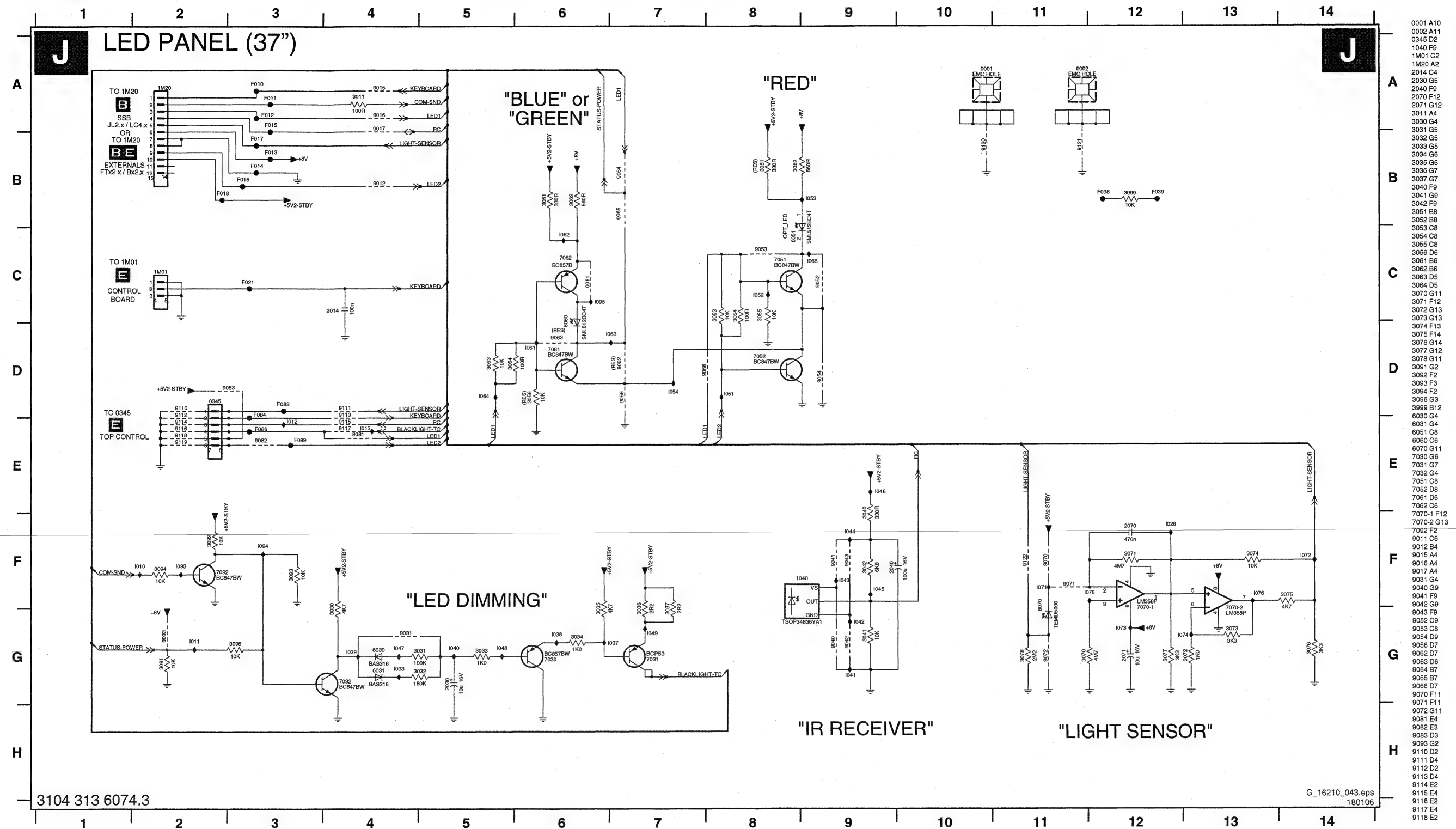
Layout IR-LED and Light Sensor Panel (26" & 32") (Top Side)



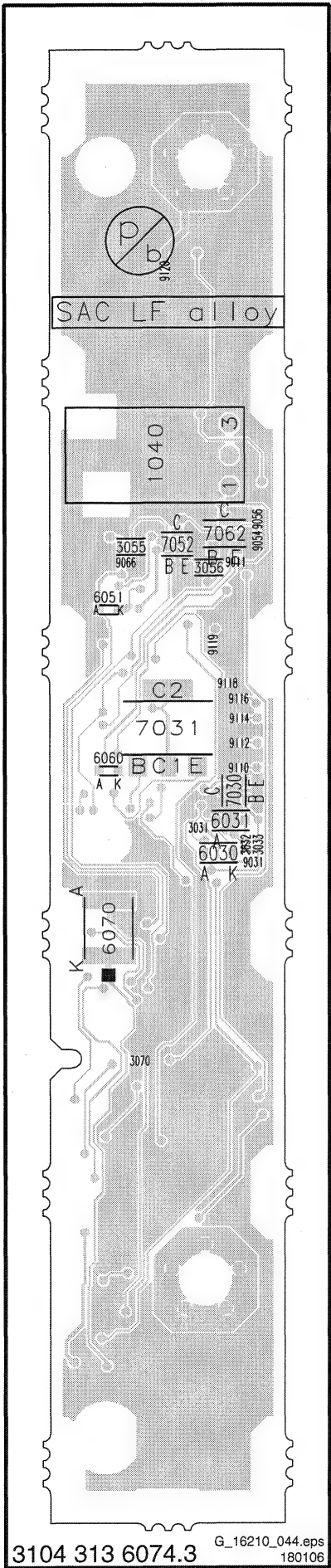
Layout IR-LED and Light Sensor Panel (26" & 32") (Bottom Side)



## Front IR / LED Panel (37" &amp; 42")

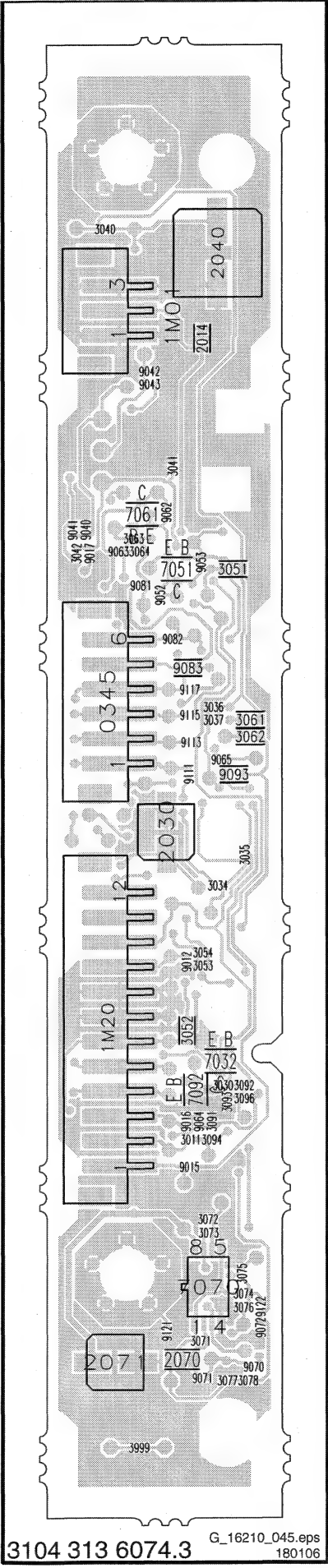


Layout Front IR / LED Panel (37" & 42") (Top Side)



- 1040 --
- 3031 --
- 3032 --
- 3033 --
- 3055 --
- 3056 --
- 3070 --
- 6030 --
- 6031 --
- 6051 --
- 6060 --
- 6070 --
- 7030 --
- 7031 --
- 7052 --
- 7062 --
- 9011 --
- 9031 --
- 9054 --
- 9056 --
- 9066 --
- 9110 --
- 9112 --
- 9114 --
- 9116 --
- 9118 --
- 9119 --
- 9120 --

Layout Front IR / LED Panel (37" & 42") (Bottom Side)



- 0345 --
- 1M01 --
- 1M20 --
- 2014 --
- 2030 --
- 2040 --
- 2070 --
- 2071 --
- 3011 --
- 3030 --
- 3034 --
- 3035 --
- 3036 --
- 3037 --
- 3040 --
- 3041 --
- 3042 --
- 3051 --
- 3052 --
- 3053 --
- 3054 --
- 3061 --
- 3062 --
- 3063 --
- 3064 --
- 3071 --
- 3072 --
- 3073 --
- 3074 --
- 3075 --
- 3076 --
- 3077 --
- 3078 --
- 3091 --
- 3092 --
- 3093 --
- 3094 --
- 3096 --
- 3999 --
- 7032 --
- 7051 --
- 7061 --
- 7070 --
- 7092 --
- 9012 --
- 9015 --
- 9016 --
- 9017 --
- 9040 --
- 9041 --
- 9042 --
- 9043 --
- 9052 --
- 9053 --
- 9062 --
- 9063 --
- 9064 --
- 9065 --
- 9070 --
- 9071 --
- 9072 --
- 9081 --
- 9082 --
- 9083 --
- 9093 --
- 9111 --
- 9113 --
- 9115 --
- 9117 --
- 9121 --
- 9122 --



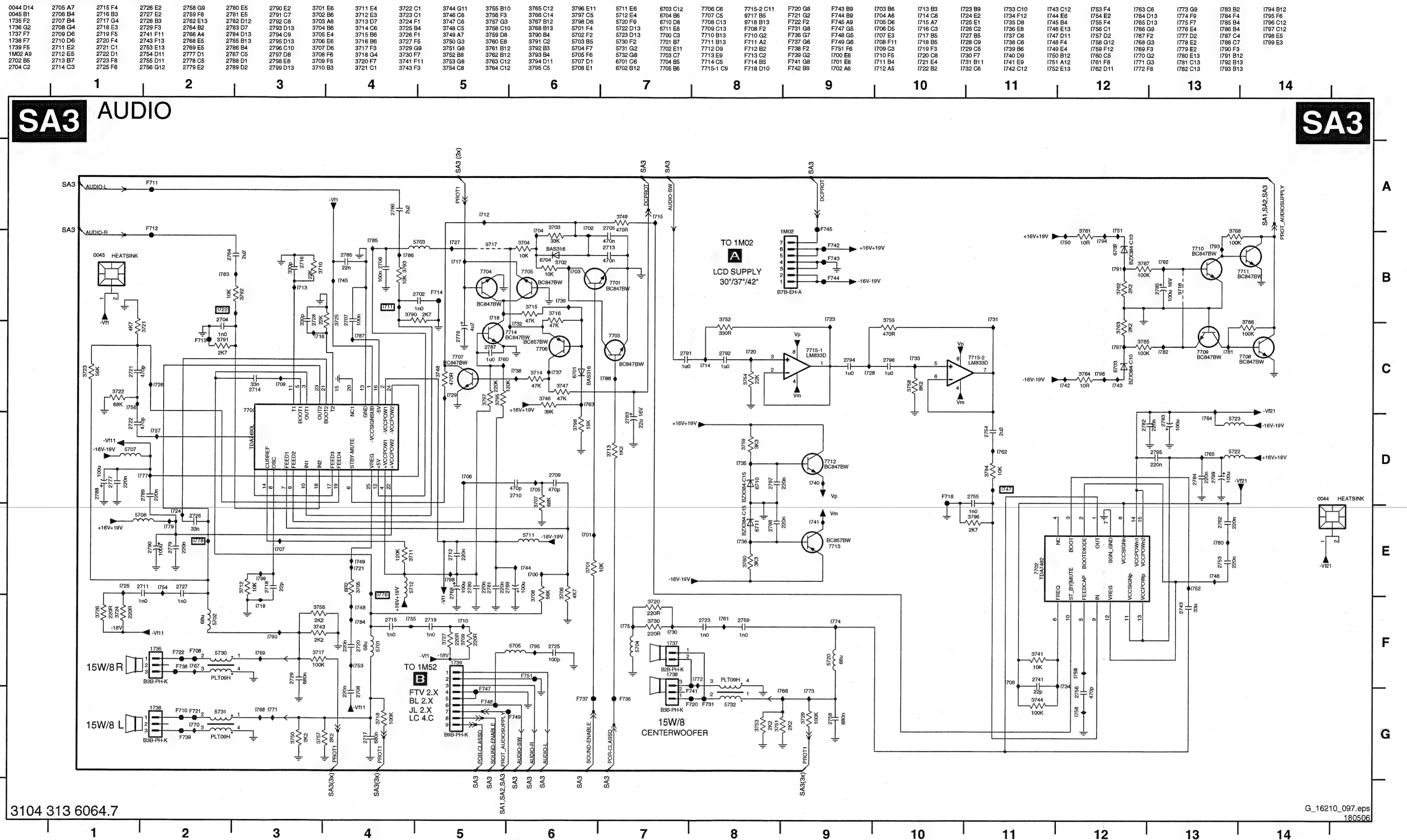


**SA2** STANDBY



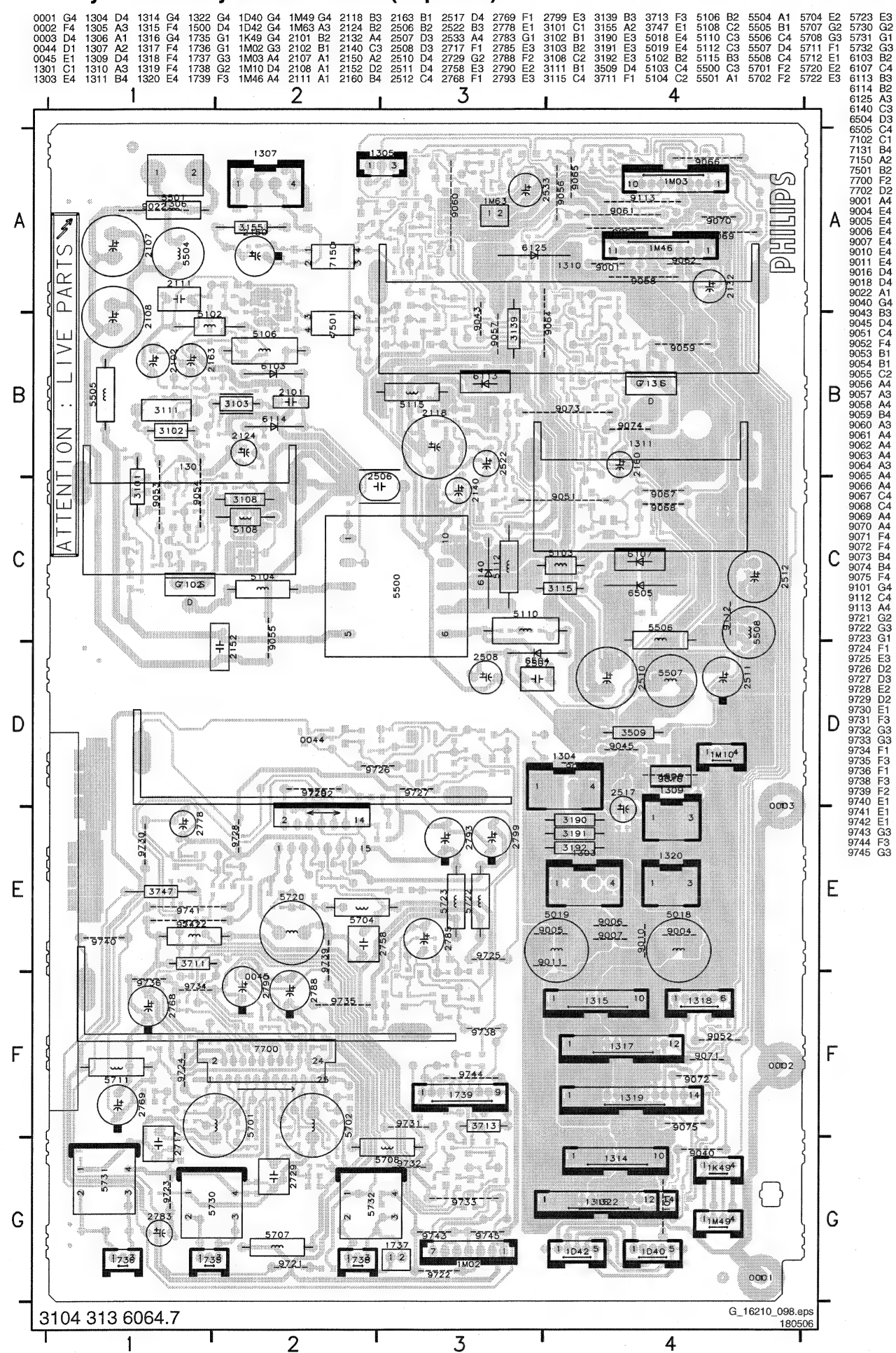
1301 B1	3506 G1	7511 A8	1186 G6
1305 D13	3507 F13	7512 A10	1187 D11
1306 B3	3506 G3	7513 B7	1188 D9
1307 H3	3509 A7	7514 A9	1189 H10
1310 A13	3510 E12	7531 E10	1190 G1
1311 A12	3511 C8	7532 D9	1191 G4
1312 C1	3512 A8	7533 D12	1192 H9
1312 F1	3513 D8	9017 E11	1197 C9
1313 D2	3514 A7	9019 A7	1198 D7
1315 D2	3515 A8	9020 C3	1199 D4
1317 B4	3516 A9	9021 B3	1501 F6
1318 B4	3517 A11	9022 B3	1502 F6
1319 F7	3518 A7	9023 C3	1503 F6
1320 F7	3519 A8	9024 D13	1504 G12
1321 E2	3521 B7	9110 H9	1505 F12
1322 E3	3522 A9	9111 D1	1506 F13
1325 E6	3523 A9	9112 E9	1507 F13
1316 D7	3524 A10	9120 B11	1508 A8
1323 E4	3528 C11	9121 B12	1509 A9
1324 H2	3529 C11	1100 D4	1510 A9
1325 C1	3530 C11	1101 C3	1511 A10
1331 C10	3531 C13	1124 B3	1512 H9
1332 C10	3532 C12	1125 D12	1513 D1
1340 G8	3533 D12	1126 E12	1514 E6
1341 D7	3534 H9	1127 H3	1515 E9
1343 D7	3535 H9	1128 H4	1516 D9
1344 F2	3536 H10	1129 H4	1517 C13
1345 C7	3537 H10	1130 H4	1518 B7
1349 G7	3538 F8	1133 H7	1519 B6
1505 H5	3539 H10	1134 H6	1520 A8
1512 B4	3540 G12	1100 B4	1521 A8
1513 F5	3541 G12	1101 B6	1522 A9
1514 G9	3542 H12	1102 B6	1523 A9
1519 E2	3543 D12	1103 C9	
1520 C2	3544 D12	1104 C9	
1682 D2	3560 E11	1105 B6	
1683 G1	3561 F12	1106 C10	
2503 D10	3562 E12	1107 C8	
2506 D5	3999 H7	1108 C8	
2507 C6	5102 E1	1109 C11	
2508 C6	5103 E6	1110 C12	
2509 G13	5104 C5	1111 C13	
2510 E7	5105 D5	1112 C9	
2511 B9	5106 D1	1113 C4	
2512 E9	5108 D4	1114 C6	
2513 E7	5110 B6	1115 C11	
2515 A10	5112 D6	1116 C10	
2518 A8	5115 B8	1117 C12	
2522 A9	5500 B5	1118 C5	
2523 A9	5501 B3	1119 C4	
2533 F11	5504 B3	1120 C6	
2534 E8	5505 B4	1121 C12	
2535 D9	5506 E8	1122 C1	
2536 D11	5507 B10	1123 C6	
2537 D13	5508 E9	1124 C5	
2538 H8	6103 C1	1125 D8	
2538 E8	6104 E2	1126 D9	
2540 H12	6105 D3	1127 B8	
2544 G12	6106 E2	1128 D7	
3100 G3	6107 E7	1129 D7	
3101 D2	6108 G2	1130 C3	
3102 E2	6109 A8	1131 C2	
3103 D4	6110 A8	1132 D4	
3104 D3	6113 C7	1133 D4	
3105 D2	6114 G1	1134 D2	
3106 E1	6115 D3	1135 D3	
3107 F1	6116 F4	1136 D2	
3108 D4	6117 C2	1137 E7	
3108 F1	6118 C2	1138 E7	
3110 D3	6119 C2	1139 E12	
3111 D1	6120 G7	1140 C1	
3112 G1	6121 G7	1141 D2	
3113 E7	6122 F7	1142 D2	
3114 F6	6125 B8	1143 D2	
3115 E6	6130 C9	1144 D2	
3116 A7	6132 C9	1145 D3	
3117 D3	6133 C9	1146 D9	
3118 A7	6134 C9	1147 E1	
3122 B6	6140 D6	1148 E10	
3123 F7	6142 F2	1149 E7	
3124 F7	6144 C3	1150 E12	
3125 F3	6147 D4	1151 E12	
3128 F3	6148 F8	1152 E12	
3129 F3	6149 F9	1153 E1	
3128 F6	6150 G4	1154 E4	
3132 D9	6151 G4	1155 E3	
3134 C10	6153 H5	1156 E4	
3135 C9	6156 G5	1157 F6	
3137 B8	6503 D9	1158 F7	
3138 E2	6504 B6	1159 F8	
3139 B9	6505 E7	1160 F7	
3140 C8	6508 H9	1161 F9	
3141 F9	6510 C13	1162 E1	
3142 G8	6511 A8	1163 F8	
3145 G2	6513 A8	1164 F7	
3146 F4	6514 B7	1165 G3	
3147 H2	6517 A7	1166 F3	
3148 E5	6519 F10	1167 F1	
3149 E4	6532 C11	1168 G9	
3150 D4	6540 F12	1169 F1	
3152 E3	6562 F12	1170 G7	
3153 C8	7100 F3	1171 F5	
3155 G4	7101 D3	1172 F2	
3156 G5	7102 C4	1173 F2	
3157 G5	7105 F4	1174 E2	
3158 G6	7131 B9	1175 F4	
3158 E8	7140 G10	1176 G7	
3160 D3	7150 G5	1177 F1	
3161 C9	7501 F6	1178 G13	
3171 C9	7503 D10	1179 G12	
3172 C10	7505 G12	1180 G4	
3175 G8	7507 C12	1181 G1	
3176 G9	7507 H12	1182 G12	
3502 C9	7508 A10	1183 G5	
3503 D11	7509 H12	1184 G5	
3504 D11	7510 F13	1185 F3	

## Standby &amp; Audio Panel: Audio

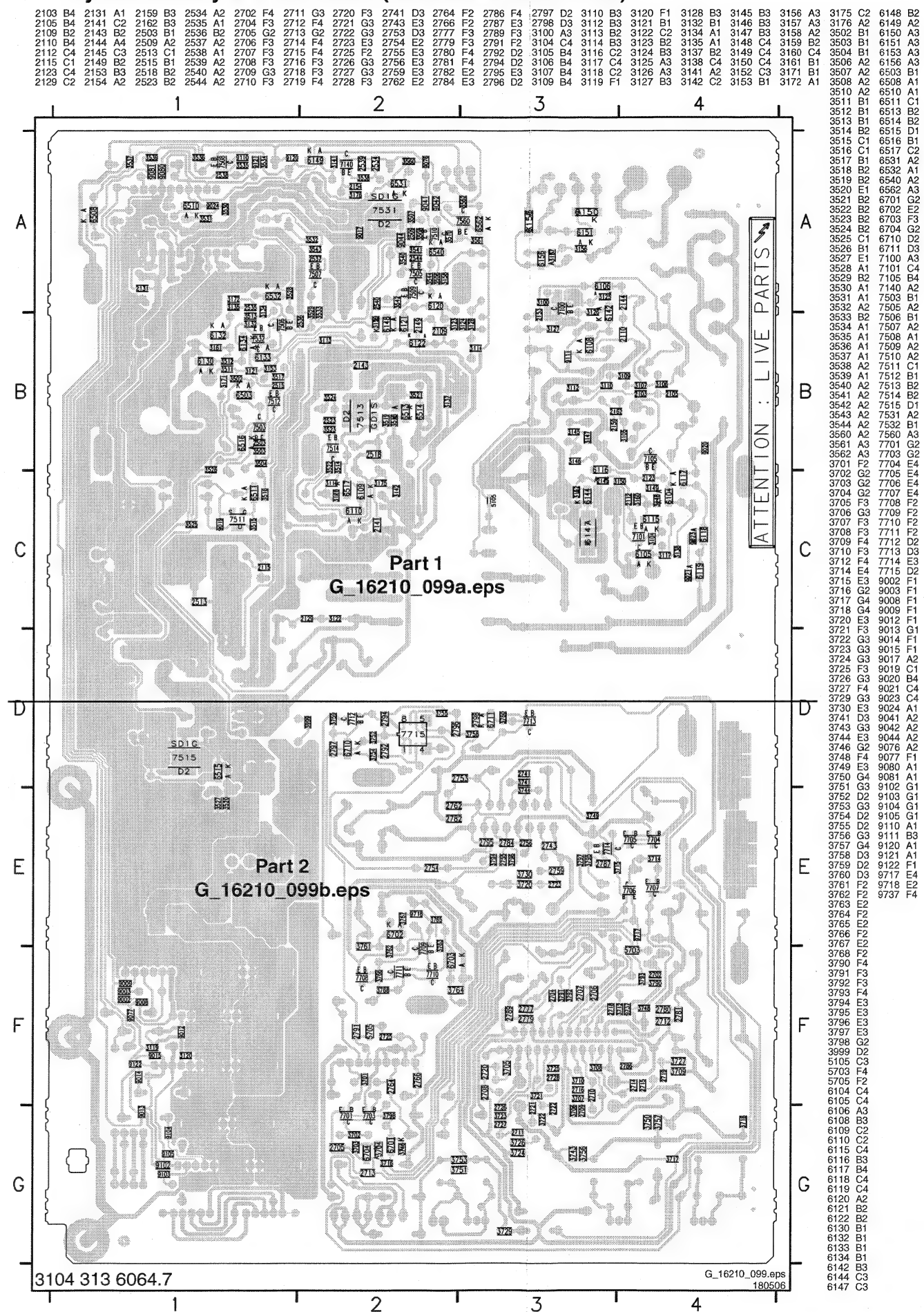




### Layout Standby & Audio Panel (Top Side)

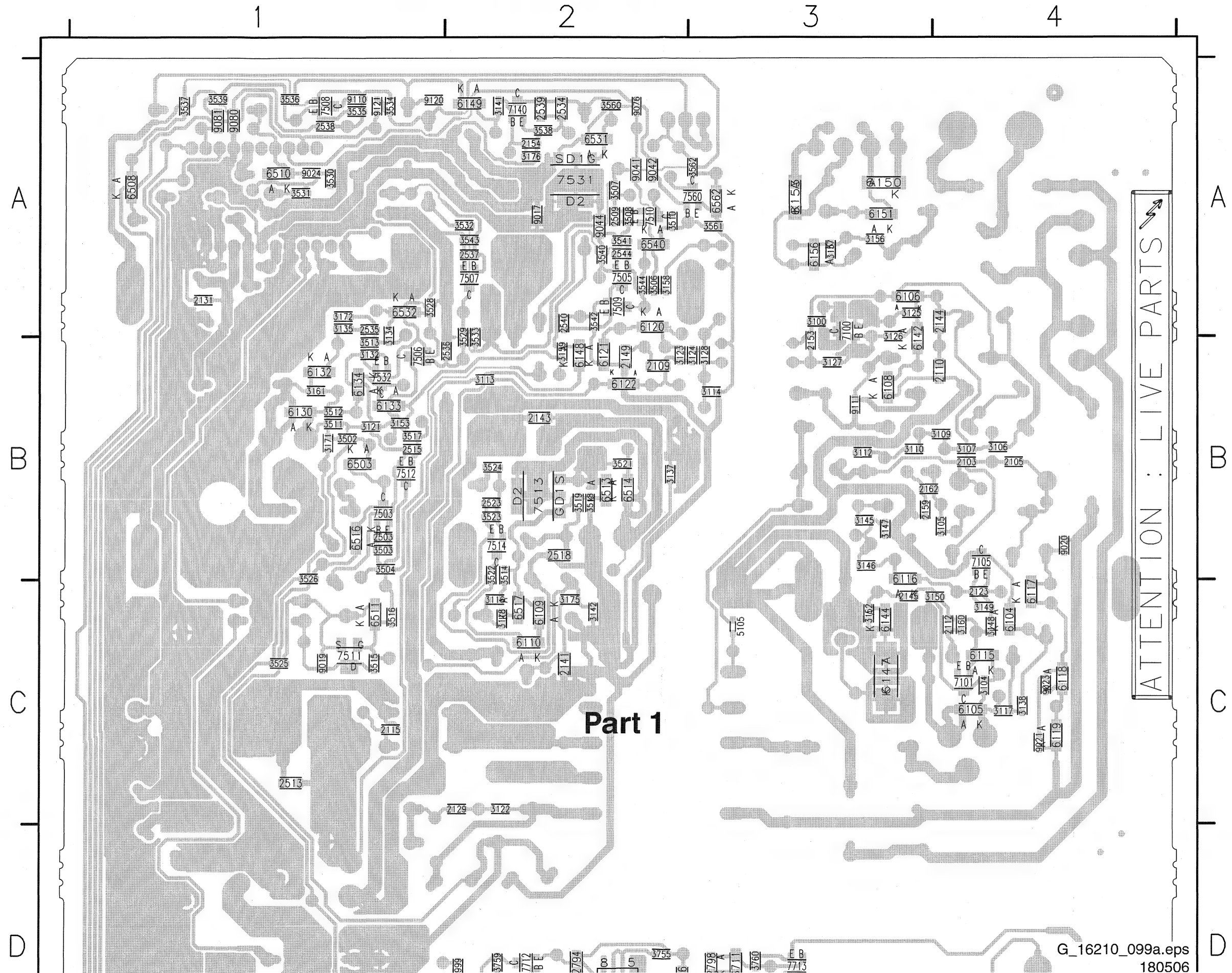


### Layout Standby & Audio Panel (Overview Bottom Side)



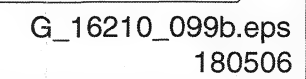


## Layout Standby &amp; Audio Panel (Part 1 Bottom Side)



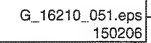


## Part 2





OTC-FLASH (FOR 1000pg TXT)





**Personal Notes:**



## 8. Alignments

### Index of this chapter:

- 8.1 General Alignment Conditions
- 8.2 Hardware Alignments
- 8.3 Software Alignments

**Note:** Figures below can deviate slightly from the actual situation, due to the different set executions.

**General:** The Service Default Mode (SDM) and Service Alignment Mode (SAM) are described in chapter 5. Menu navigation is done with the Cursor Up, Down, Left or Right keys of the remote control transmitter.

### 8.1 General Alignment Conditions

Perform all electrical adjustments under the following conditions:

Mains voltage and frequency: 110-240 V / 50/60 Hz (26 and 32"), 220-240 V / 50/60 Hz (37").

Allow the set to warm up for approximately 10 minutes.

Test probe:  $R_i > 10\text{ M}\Omega$ ;  $C_i < 2.5\text{ pF}$ .

### 8.2 Hardware Alignments

There are no hardware alignments foreseen for the 26" and 32" models. In the 37" and 42" models it can be necessary to adjust the Backlight Voltage.

#### 8.2.1 Backlight Voltage Alignment

Switch "ON" the set and measure the voltage between pin 1 of connector 1304 and pin 1 of connector 1309 (ground). Align R3026 until this voltage is  $24\text{ V}_{\text{DC}} \pm 0.1\text{ V}$  (for LPL displays).

**Caution:** This voltage must be aligned very precisely: when it is too high ( $> 27\text{ V}$ ), it can destroy the inverters. When it is too low ( $< 23\text{ V}$ ) the backlight will not start up.

### 8.3 Software Alignments

With the software alignments of the Service Alignment Mode (SAM) the geometry, white tone and tuner (IF) can be aligned. To store the data: Use the RC button Menu to switch to the main menu and next, switch to 'Stand-by' mode.

**Note:** For models with "Pixel Plus", the "Black Offset" (black level offset) should not be changed in SAM. These offset values of RGB should be set to "0", and should **NOT** be adjusted. Any adjustment of these values will affect the low light white balance.

## 8.3.1 SAM Menu

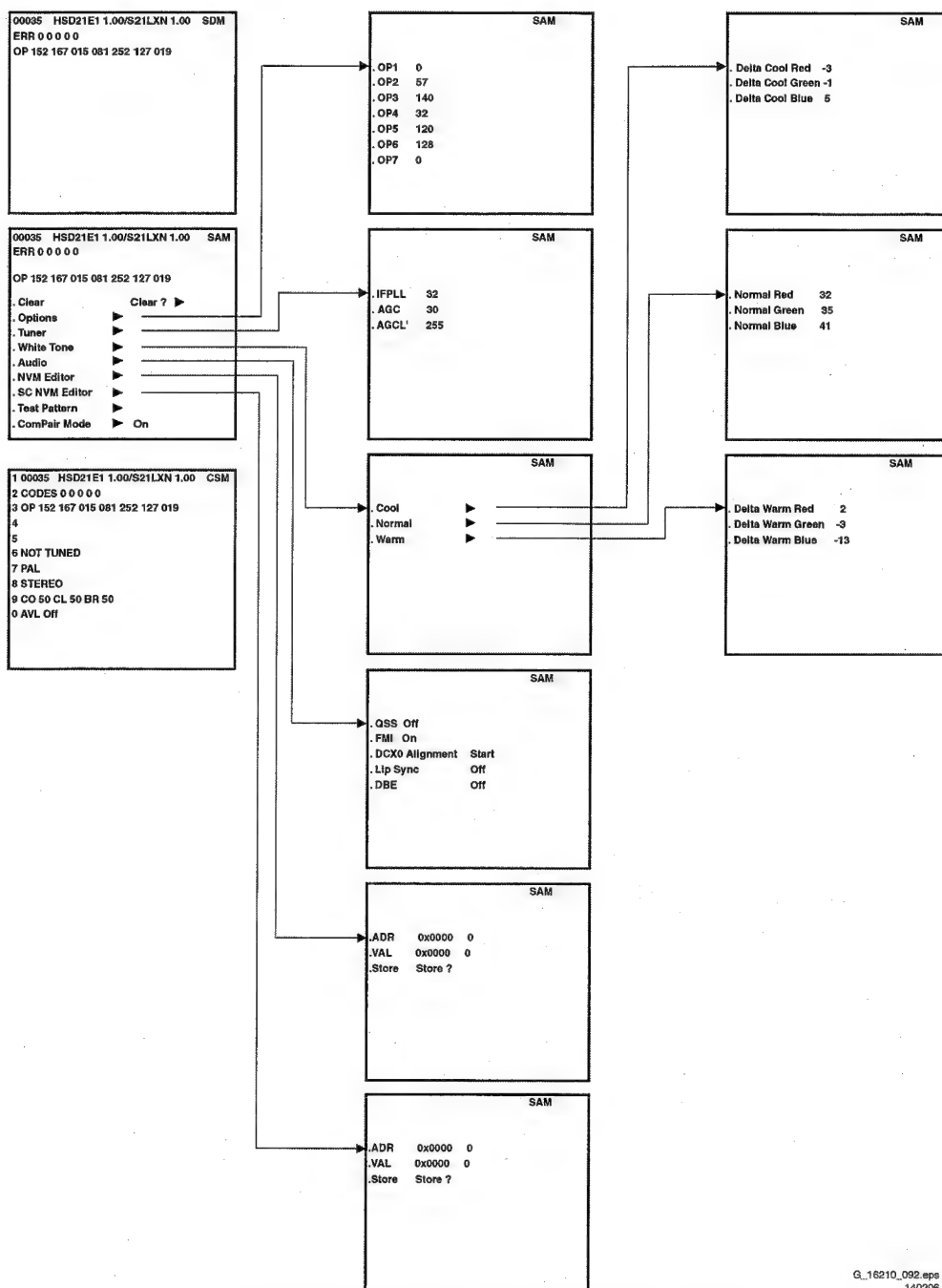
G\_16210\_092.eps  
140206

Figure 8-1 Overview SAM menu (the values are indicative).

## 8.3.2 Tuner Adjustment

## AGC (RF AGC Take Over Point)

- Activate the SAM menu.
- Go to the sub-menu Tuner.
- Select the AGC sub-menu.
- Adjust the AGC value to AGC = 27.
- Adjust the AGC L' value to AGC L' = 27 (Europe only).
- Adjust the IFPLL value to IFPLL = 32 (Europe only).
- Switch the set to standby to store the data.

## 8.3.3 DCXO (Digital Xtal Oscillator) Alignment (for NICAM sets only)

- Input a Colour bar signal with a colour subcarrier frequency of 4.43 MHz on SCART1 or SCART2.
- Select as a signal source EXT1 or AV1.
- Go to the SAM menu and select Audio.
- Activate DCXO Alignment and wait until this process has finished (DONE).
- Check if the NICAM audio reception is OK, if not: repeat the procedure.
- Switch the set to standby to store the data.

### 8.3.4 ADC Gain and Grey Scale Alignment

The table below shows a number of NVM settings used for each model of TV set. Be sure to use the correct editor in the SAM menu (NVM Editor or SC NVM Editor), because the first one is used for the Hercules NVM, and the second one for the SCALER (SC) part of the TV set. For further important NVM settings, see also the other NVM tables elsewhere in this manual.

**Caution:**

- Do not change the NVM settings without understanding the function of each setting, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!
- Do not change the Scaler NVM settings, as this will hamper the DVI functionality of the TV set!
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

**Table 8-1 ADC gain and grey scale alignment**

SDTV ADC Gain settings: Use the NVM Editor in SAM to set these values in the Hercules NVM		
Setting	Hercules NVM Address (decimal value)	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
NVM_ADC_GAIN_R	006	135
NVM_ADC_GAIN_G	007	185
NVM_ADC_GAIN_B	008	145

SDTV Greyscale settings: Use the SC NVM Editor in SAM to set these values in the Scaler NVM		
Setting	Scaler NVM Address (decimal value)	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
ADC_RED_OFFSET2	338	070
ADC_GRN_OFFSET2	339	070
ADC_BLU_OFFSET2	340	070
ADC_RED_GAIN	341	150
ADC_GRN_GAIN	343	150
ADC_BLU_GAIN	345	150
PC Greyscale settings		
Setting	Scaler NVM Address (decimal value)	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
ADC_RED_OFFSET2	325	070
ADC_GRN_OFFSET2	326	070
ADC_BLU_OFFSET2	327	070
ADC_RED_GAIN	328	240
ADC_GRN_GAIN	330	240
ADC_BLU_GAIN	332	240
HD Greyscale settings		
Setting	Scaler NVM Address (decimal value)	26PF5321/10/12 32PF5321/10/12 37PF5321/10/12 26PF7321/12 32PF7321/12 37PF7321/10/12 42PF5421/10
ADC_RED_OFFSET2	351	064
ADC_GRN_OFFSET2	352	075
ADC_BLU_OFFSET2	353	064
ADC_RED_GAIN	354	180
ADC_GRN_GAIN	356	180
ADC_BLU_GAIN	358	180

### 8.3.5 Panel Size Settings

The table below shows the NVM settings for panel selection, based on panel size and manufacturer. Use the SC NVM editor in the SAM menu to change the panel code at decimal address 320.

**Caution:**

- Make sure to choose the right panel, because incorrect NVM settings may seriously hamper the correct functioning of the TV set!
- Always note down the existing NVM settings, before changing the settings. This will enable you to return to the original settings, if the new settings turn out to be incorrect.

**Table 8-2 Panel size settings**

Option table for panel size settings		
Manufacturer	Size (inch)	Panel code (hex)
LPL	26	1A
LPL	32	0F
LPL	37	0E
LPL	42	22
Sharp	26	11
Sharp	32	10
AUO	26	08
AUO	32	09
AUO	37	0A
QDI	26	20
QDI	32	21

### 8.3.6 Sound

- For NICAM sets: see paragraph 8.3.3.
- For other sets: No adjustments needed for sound.



### 8.3.7 Options

Options OP1...OP7 in the SAM menu can be used for quickly restoring 64 features or settings of the HERCULES part of the TV set to their original default factory values (8 groups of 8 features/settings each). When the decimal value of one option byte OP1...OP7 is changed (see the first table below) then a group of 8 bits, representing 8 HERCULES options or features, is changed as well (see the second table below for a detailed description of the features or settings that are changed). The second table shows which option byte (OP1...OP7) represents which group of 8 option bits. Each bit (0...7) switches a particular HERCULES feature or setting ON or OFF, depending on its value (1 or 0).

It is also possible to change the features or settings mentioned in the second table directly at bit level, by means of the NVM Editor in the SAM menu. In the NVM Editor, first the correct NVM address (ADR) has to be entered, then the correct value (VAL, 1 or 0) for each bit (see second table), and finally the settings have to be stored (STORE). For quickly restoring the HERCULES part of the TV set to its original factory settings, however, it is more convenient to simply enter the default factory settings OP1...OP7 that are given in the first table below. How to do this, is described in the next paragraph.

#### How to Change an Option Byte

As has been explained above, an Option byte (OP) represents a number of different HERCULES options. Changing these bytes directly makes it possible to set all HERCULES options very fast. All options are controlled via seven option bytes. Select the option byte (OP1.. OP7) with the Menu Up/ Down keys, and enter the new (decimal) value. For the correct Factory Default settings, see the first table below. For more detailed information, see the second table.

Leaving the Option submenu saves the changes in the Option Byte settings. Some changes will only take effect after the set has been switched "off" and "on" with the AC power switch (cold start).

Table 8-3 Option codes OP1...OP7

Option table for quickly restoring the HERCULES to its Factory Default settings			
Model number	26PF5321/10/12 32PF5321/10/12	37PF5321/10/12 42PF5421/10	26PF7321/12 32PF7321/12 37PF7321/10/12
OP1	152	152	152
OP2	167	167	167
OP3	47	47	111
OP4	81	113	113
OP5	252	252	252
OP6	27	27	27
OP7	19	19	19
Options (can be changed only via the SAM menu)	Total decimal value for each option per model number		

#### How to Change Options at Bit Level

If you wish to know which features or settings of the HERCULES are changed via OP1...OP7, or if you want to change each option or feature bit by bit, use the more detailed table below.

**Note:** the table below contains only part of the NVM settings that can be changed. A second range of settings and features can be found in Chapter 5 of this manual, in table **NVM Default values**. The settings mentioned there can only be changed via the NVM editor. For further settings, see also the table "ADC Gain and Grey scale alignment" elsewhere in this manual.

Table 8-4 Option codes in detail, at bit level

Option byte & bit table for restoring the TV set to its original Factory Default settings via the NVM Editor in the SAM menu				
	Model number	26PF5321/10/12 32PF5321/10/12	37PF5321/10/12 42F5421/10	26PF7321/12 32PF7321/12 37PF7321/10/12
<b>OP1</b>	Description of feature/option to be switched ON or OFF			
bit 7 (msb)	OP_PHILIPS_TUNER	1	1	1
bit 6	OP_FM_RADIO	0	0	0
bit 5	OP_LNA	0	0	0
bit 4	OP_ATS // for EU	1	1	1
bit 3	OP_ACI	1	1	1
bit 2	OP_UK_PNP	0	0	0
bit 1	OP_VIRGIN_MODE	0	0	0
bit 0 (lsb)	OP_CHINA	0	0	0
	Total DEC Value	152	152	152
	Total HEX Value	98	98	98
<b>OP2</b>				
bit 7 (msb)	OP_HDMI-2X	1	1	1
bit 6	OP_IBEX (for DVB)	0	0	0
bit 5	OP_CHANNEL_NAMING	1	1	1
bit 4	OP_LTI (Lum Transcient Improvmt)	0	0	0
bit 3	OP_TILT	0	0	0
bit 2	OP_FINE_TUNING	1	1	1
bit 1	OP_BACKLIGHT_DIMMING (for Malibu only)	1	1	1
bit 0 (lsb)	OP_HUE	1	1	1
	Total DEC Value	167	167	167
	Total HEX Value	A7	A7	A7
<b>OP3</b>				
bit 7 (msb)	OP_EW_FUNCTION	0	0	0
bit 6	OP_PIXEL_PLUS (for Option A)	0	0	1
bit 5	OP_SCL_RECOVERY	1	1	1
bit 4	OP_SPLITTER // temp	0	0	0
bit 3	OP_VIRTUAL_DOLBY	1	1	1
bit 2	OP_WIDE_SCREEN	1	1	1
bit 1	OP_WSSB	1	1	1
bit 0 (lsb)	OP_OP_ME5 // OP_ME5 - 5/6 local buttons implementation	1	1	1
	Total DEC Value	47	47	111
	Total HEX Value	2F	2F	6F
<b>OP4</b>				
bit 7 (msb)	OP_LIP_SYNC (for PDP only)	0	0	0
bit 6	OP_HD	1	1	1
bit 5	OP_1000P_TEXT	0	1	1
bit 4	OP_DELTA_VOLUME	1	1	1
bit 3	OP_TAIWAN_KOREA	0	0	0
bit 2	OP_VOLUME_LIMITER	0	0	0
bit 1	OP_STEREO_DBX	0	0	0
bit 0 (lsb)	OP_STEREO_NICAM_2CS	1	1	1
	Total DEC Value	81	113	113
	Total HEX Value	51	71	71
<b>OP5</b>				
bit 7 (msb)	OP_AV1	1	1	1
bit 6	OP_AV2	1	1	1
bit 5	OP_AV3	1	1	1
bit 4	OP_CVI	1	1	1
bit 3	OP_SVHS2	1	1	1
bit 2	OP_SVHS3	1	1	1
bit 1	OP_HOTEL_MODE	0	0	0
bit 0 (lsb)	OP_SIMPLE_FACTORY=OP_BTSC_AVSTEREO	0	0	0
	Total DEC Value	252	252	252
	Total HEX Value	FC	FC	FC
<b>OP6</b>				
bit 7 (msb)	OP_PERSONAL_ZAPPING	0	0	0
bit 6	OP_SMART_SURF	0	0	0
bit 5	OP_FMTRAP	0	0	0
bit 4	OP_COMBFILTER	1	1	1
bit 3	OP_ACTIVE_CONTROL	1	1	1
bit 2	OP_VIDEO_TEXT	0	0	0
bit 1	OP_LIGHT_SENSOR	1	1	1
bit 0 (lsb)	OP_TWIN_TEXT	1	1	1
	Total DEC Value	27	27	27
	Total HEX Value	1B	1B	1B
<b>OP7</b>				
bit 7 (msb)	OP_TIME_WIN1	0	0	0
bit 6	OP_DVB_USB = OP_MALAY	0	0	0
bit 5	OP_AMBILIGHT	0	0	0
bit 4	OP_COLUMBUS	1	1	1
bit 3	OP_DUMMY6	0	0	0
bit 2	OP_DUMMY7	0	0	0
bit 1	OP_WEST_EU	1	1	1
bit 0 (lsb)	OP_MULTI_STANDARD_EUR	1	1	1
	Total DEC Value	19	19	19
	Total HEX Value	13	13	13

## 9. Circuit Descriptions, Abbreviation List, and IC Data Sheets

### Index of this chapter:

- 9.1 Introduction
- 9.2 Block Diagram
- 9.3 Power Supply Unit
- 9.4 Abbreviation List
- 9.5 IC Data Sheets

### 9.1 Introduction

The LC4.31 chassis is a global chassis for the year 2006. It is the successor of the LC4.3 chassis and covers screen sizes of 26, 32, 37 and 42 inch (in 16:9 ratio). It has three stylings, called ME5FL, ME6 and Entry. There are two different picture qualities available, depending on the model: Pixel Plus in the xxPF7321/10 and /12 models, and Digital Crystal Clear in the xxPF5321/10 and /12 models, and in the 42PF5421/10 model. The block diagram below (Figure "Block diagram") shows the Pixel Plus architecture; the architectures of the Digital Crystal

Clear models are shown in the block diagram on the next Figure "Block diagram of the internal building blocks".

The architecture consists of a TV and Scaler panel, I/O panel, Side I/O and Local Keyboard panel and Power Supply panel. The functions for video/audio processing, microprocessor (P), and CC/Teletext (TXT) decoder are all combined in one IC (TDA150xx, item 7217), the so-called third generation Ultimate One Chip (UOC-III) or "Hercules". This chip has the following features:

- Control, small signal, mono/stereo, and extensive Audio/ Video switching in one IC.
- Upgrade with digital sound & video processing.
- Alignment free IF, including SECAM-L/L1 and AM.
- FM sound 4.5/5.5/6.0/6.5, no traps/bandpass filters.
- Full multi-standard colour decoder.
- One Xtal reference for all functions (microprocessor, RCP, TXT/CC, RDS, colour decoder, and stereo sound processor).

### 9.2 Block Diagram

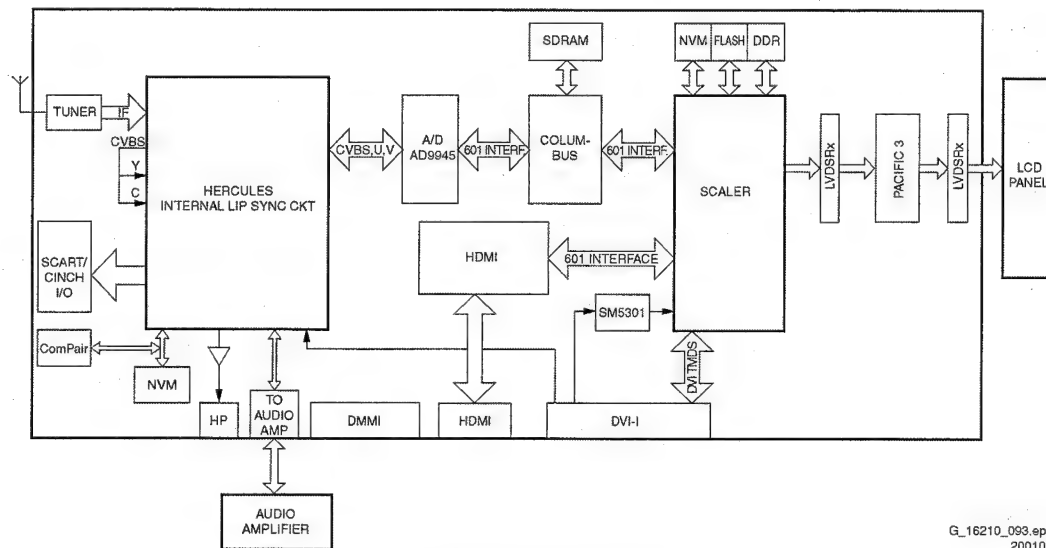


Figure 9-1 Block Diagram

The function is basically the same as in the LC4.3E AA, with the following differences:

- the model range only contains models with Digital Crystal Clear or Pixel Plus;
- Pixel Plus is performed by a new IC, called Pacific 3.

The Pacific 3 IC, which is present in Pixel Plus models, provides additional sharpening, and contrast and colour enhancements to the picture. For a general outline, see the table and the block diagrams below, in which the architectures of the two different models are given, together with their electronic building blocks.

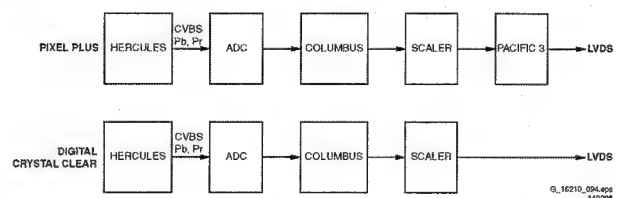


Figure 9-2 Block diagram of the internal building blocks

For more information, please refer to manual LC4.3E AA, 12NC 3122 785 15270

Table 9-1 Models and picture quality

Model	Picture quality
xxPF5321/10/12 & 42PF5421/10	Digital Crystal Clear
xxPF7321/10/12	Pixel Plus

### 9.3 Power Supply Unit

#### 9.3.1 Description

The power supply is a bought module, that consists of the following parts:

- the AC mains input with fuse;
- a separate stand-by supply;



- the mains harmonic circuit;
- the mains rectifier.

The power supply provides the following output voltages:

- 3.3V for the UOCIII, Scaler and other digital circuits;
- unregulated 12V, which is converted to regulated 5V, 8V, and 12V;
- a so-called bolt-on supply, which provides 12V for bolt-on devices (not covered in this manual).

### 9.3.2 States and Sub-states of the Power Supply

The power supply has three different states. Each of these states has a couple of sub-states:

1. POWER OFF:
  - a. PASSIVE OFF:  
The set is switched off completely, the mains cable is disconnected. When the mains is re-connected, the set switches to the last STAND-BY status.
  - b. ACTIVE OFF:  
The set is connected to the mains, and consuming a minimum amount of power. This sub-state is similar to NORMAL STAND-BY, but all LED indicators are off. Switch to the ON or STAND-BY mode with the POWER ON/OFF button (in the NAFTA region also with the STAND-BY KEY of the RC).
2. STAND-BY:
  - a. NORMAL STAND-BY:  
Only Hercules and NVM are connected to the power (+3V3STBY), other circuits are disconnected. The LED lights red. The signal from a control port can switch the set OFF or ON.
  - b. SEMI STAND-BY:  
Only on DVB sets. In this state the LED lights red. +3V3STBY, +12VUNREG, and +12V iBOZ remain ON for a certain time. After that time only +3V3STBY stays ON, only powering Hercules and NVM, so the set is in NORMAL STAND-BY.
3. POWER ON:  
This is the normal operating mode. All power supply lines are available. All circuits are active. From this mode the set can switch to NORMAL STAND-BY, SEMI STAND-BY, OFF, or PROTECTION.

## 9.4 Abbreviation List

0/6/12	SCART switch control signal on A/V board. 0 = loop through (AUX to TV), 6 = play 16:9 format, 12 = play 4:3 format
1080i	1080 visible lines, interlaced
1080p	1080 visible lines, progressive scan
2CS	2 Carrier Sound (or 2 Channel Stereo)
480i	480 visible lines, interlaced
480p	480 visible lines, progressive scan
ACI	Automatic Channel Installation: algorithm that installs TV channels directly from a cable network by means of a predefined TXT page
ADC	Analogue to Digital Converter
AFC	Automatic Frequency Control; Control signal used to tune and lock to the correct frequency
AGC	Automatic gain control (feedback) signal to the tuner. This circuit ensures a constant output amplitude regardless of the input amplitude
AM	Amplitude Modulation; A "data encoding to a carrier" method, such that the carrier amplitude is proportional to the data value
AP or A/P	Asia Pacific
AR	Aspect Ratio: 4 by 3 or 16 by 9
ASD	Automatic Standard Detection
AV	External Audio Video
B-SC1-IN	Blue SCART1/EXT1 in
B-SC2-IN	Blue SCART2/EXT2 in
B-TXT	Blue Teletext
B/G	Monochrome TV system. Sound carrier distance is 5.5 MHz. B= VHF-band, G= UHF-band
C-FRONT	Chrominance front input
CBA	Circuit Board Assembly (also called PCB or PWB)
CL	Constant Level: audio output to connect with an external amplifier
CLUT	Colour Look-Up Table
COFDM	Coded Orthogonal Frequency Division Multiplexing: a multiplexing technique, that distributes the data to be transmitted, over many carriers
COLUMBUS	COLOUR LUMInance Baseband Universal Subsystem. IC performing noise reduction and 2D/3D comb filtering
ComPair	Computer aided rePair. A tool for diagnosing a TV through a PC controlled interface
CSM	Customer Service Mode
CVBS	Composite Video and Blanking Signal; A single video signal that contains luminance, colour, and timing information
DAC	Digital to Analogue Converter
DBE	Dynamic Bass Enhancement: extra low frequency amplification
DFU	Directions For Use: Owner's manual
DNR	Dynamic Noise Reduction / Digital Noise Reduction; Noise reduction feature of the set
DRAM	Dynamic RAM; dynamically refreshed RAM
DSP	Digital Signal Processing
DST	Dealer Service Tool; Special remote control designed for dealers to enter e.g. service mode (a DST-emulator is available in ComPair)

EEPROM	Electrically Erasable and Programmable Read Only Memory	NTSC	National Television Standard Committee. Colour system used mainly in North America and Japan. Colour carrier NTSC M/N = 3.579545 MHz, NTSC 4.43 = 4.433619 MHz (this is a VCR norm, it is not transmitted off-air)
EPG	Electronic Program Guide: system used by broadcasters to transmit TV guide information (= NexTVView)	NVM	Non Volatile Memory; IC containing data such as alignment values, preset stations
EU	Europe	O/C	Open Circuit
EXT	EXTERNAL (source), entering the set by SCART or by cinches (jacks)	ON/OFF LED	On/Off control signal for the LED
FBL	Fast BLanking; DC signal accompanying RGB signals. To blank the video signal when it is returning from the right side of the screen to the left side. The video level is brought down below the black video level	OSD	On Screen Display
FM	Field Memory; A memory chip that is capable of storing one or more TV picture fields / Frequency Modulation; A technique that sends data as frequency variations of a carrier signal	PAL	Phase Alternating Line. Colour system used mainly in Western Europe (colour carrier = 4.433619 MHz) and South America (colour carrier PAL M = 3.575612 MHz and PAL N = 3.582056 MHz)
FRC	Frame Rate Converter	PC	Personal Computer
H	H_sync to the module	PCB	Printed Circuit Board (or PWB)
HA	Horizontal Acquisition; horizontal sync pulse	PIP	Picture In Picture
HD	High Definition	PLL	Phase Locked Loop. Used, for example, in FST tuning systems. The customer can directly provide the desired frequency
HP	HeadPhone	Progressive Scan	Scan mode where all scan lines are displayed in one frame at the same time, creating a double vertical resolution.
I	Monochrome TV system. Sound carrier distance is 6.0 MHz. VHF- and UHF-band	PWB	Printed Wiring Board (also called PCB or CBA)
I <sup>2</sup> C	Integrated IC bus	RAM	Random Access Memory
I <sup>2</sup> S	Integrated IC Sound bus	RC	Remote Control transmitter
IBO	Intelligent Bolt-On module	RC5 or 6	Remote Control system 5 or 6, the signal from the remote control receiver
IC	Integrated Circuit	RGB	Red, Green, and Blue colour space; The primary colour signals for TV. By mixing levels of R, G, and B, all colours (Y/C) are reproduced
IF	Intermediate Frequency	RGBHV	Red, Green, Blue, Horizontal sync, and Vertical sync
Interlaced	Scan mode where two fields are used to form one frame. Each field contains half the number of the total amount of lines. The fields are written in "pairs", causing line flicker.	ROM	Read Only Memory
IR	Infra Red	SAM	Service Alignment Mode
IRQ	Interrupt ReQuest	S/C	Short Circuit
Last Status	The settings last chosen by the customer and read and stored in RAM or in the NVM. They are called at start-up of the set to configure it according to the customer's preferences	SCART	Syndicat des Constructeurs d'Appareils Radiorécepteurs et Téléviseurs; This is a 21-pin connector used in EU, that carries various audio, video, and control signals (it is also called Péritel connector)
LATAM	LATIn AMerica	SCL	Serial CLock Signal on I <sup>2</sup> C bus
LC04	Philips chassis name for LCD TV 2004 project	SD	Standard Definition
LCD	Liquid Crystal Display	SDA	Serial Data Signal on I <sup>2</sup> C bus
LED	Light Emitting Diode; A semiconductor diode that emits light when a current is passed through it	SDRAM	Synchronous DRAM
LL'	Monochrome TV system. Sound carrier distance is 6.5 MHz. L' is Band I, L is all bands except for Band I	SECAM	SÉquence Couleur Avec Mémoire; Colour system mainly used in France and East Europe. The chroma is FM modulated and the R-Y and B-Y signals are transmitted line sequentially. Colour carriers= 4.406250 MHz and 4.250000 MHz
LS	LoudSpeaker	SIF	Sound Intermediate Frequency
LVDS	Low Voltage Differential Signalling, data transmission system for high speed and low EMI communication.	SMPS	Switched Mode Power Supply
M/N	Monochrome TV system. Sound carrier distance is 4.5 MHz. M= 525 lines @ 60 Hz, N= 625 lines @ 50 Hz	SND	SouND
MOSFET	Metal Oxide Semiconductor Field Effect Transistor	SOPS	Self Oscillating Power Supply
MPEG	Motion Pictures Experts Group. An ISO/IEC body that has given its name to an image compressing scheme for moving video	SRAM	Static RAM
MSP	Multi-standard Sound Processor: ITT sound decoder	STBY	STandBY
MUTE	MUTE Line	SVHS	Super Video Home System
NC	Not Connected	SW	Software or Subwoofer or Switch
NICAM	Near Instantaneously Companded Audio Multiplexing; This is a digital sound system, mainly used in Europe	THD	Total Harmonic Distortion
		TXT	Teletext; TXT is a digital addition to analogue TV signals that contain textual and graphical information (25 rows x 40 columns). The information is

	transmitted within the first 25 lines during the Vertical Blank Interval (VBI)
uP	Microprocessor
VA	Vertical Acquisition
VL	Variable Level out: processed audio output towards external amplifier
VCR	Video Cassette Recorder
VGA	Video Graphics Array; 640x480 (4:3)
WD	Watch Dog
WYSIWYR	What You See Is What You Record: record selection that follows main picture and sound
XTAL	Quartz crystal
Y	Luminance signal
Y/C	Y consists of luminance signal, blanking level and sync; C consists of chroma (colour) signal
YPbPr	This is a scaled version of the YUV colour space. Y= Luminance, Pb/Pr= Colour difference signals B-Y and R-Y, other amplitudes w.r.t. to YUV
YUV	Colour space used by the NTSC and PAL video systems. Y is the luminance and U/V are the colour difference signals



9.5 IC Data Sheets

This section shows the internal block diagrams and pin layouts of ICs that are drawn as "black boxes" in the electrical diagrams (with the exception of "memory" and "logic" ICs).

9.5.1 Diagram B2, Type TDA15021H (IC7217, Hercules)

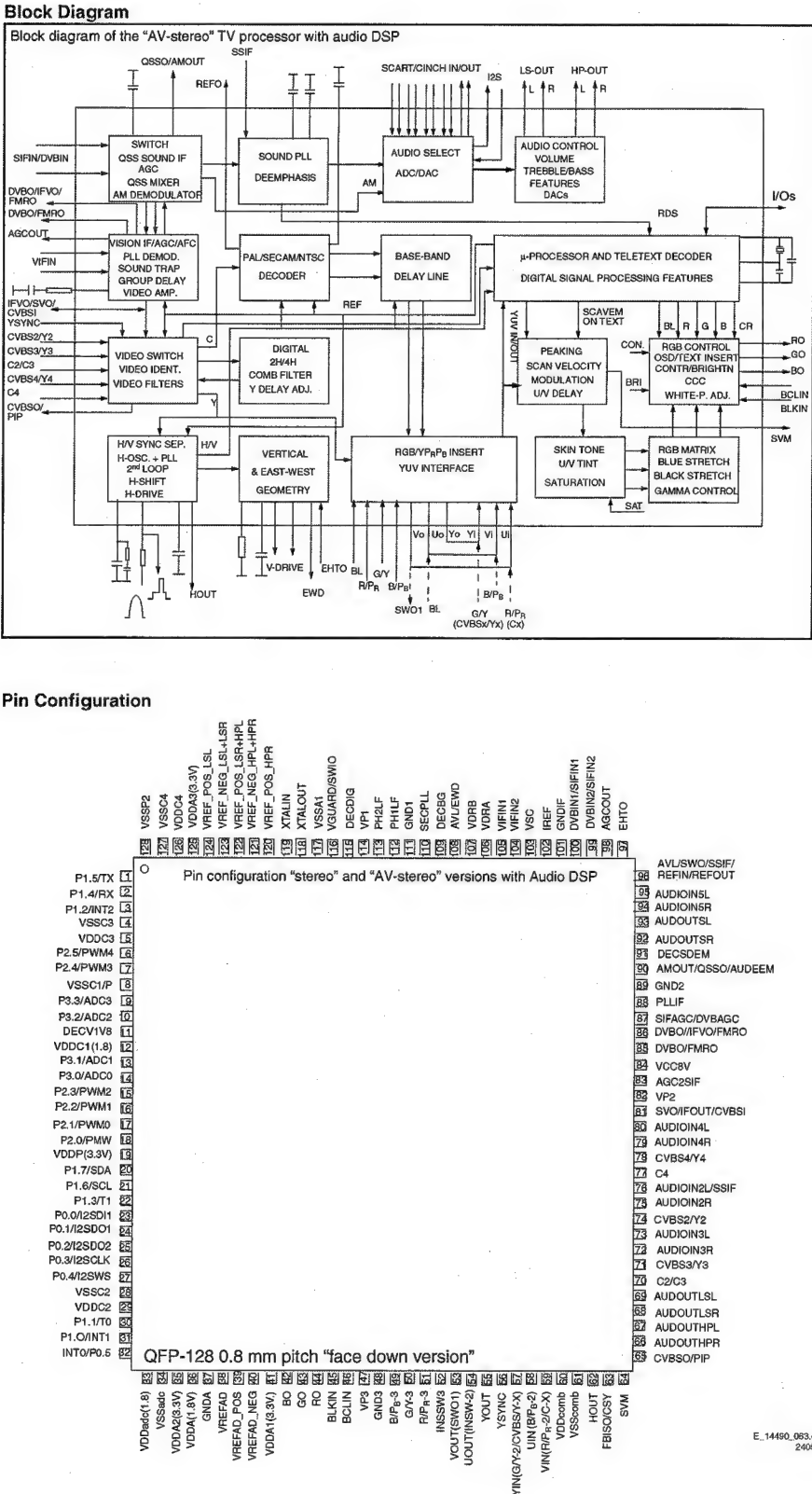


Figure 9-3 Internal block diagram and pin configuration

## 9.5.2 Diagram B19, Type T6TU5XB (IC7M00, Columbus)

Figure 1 Package outline (top view)

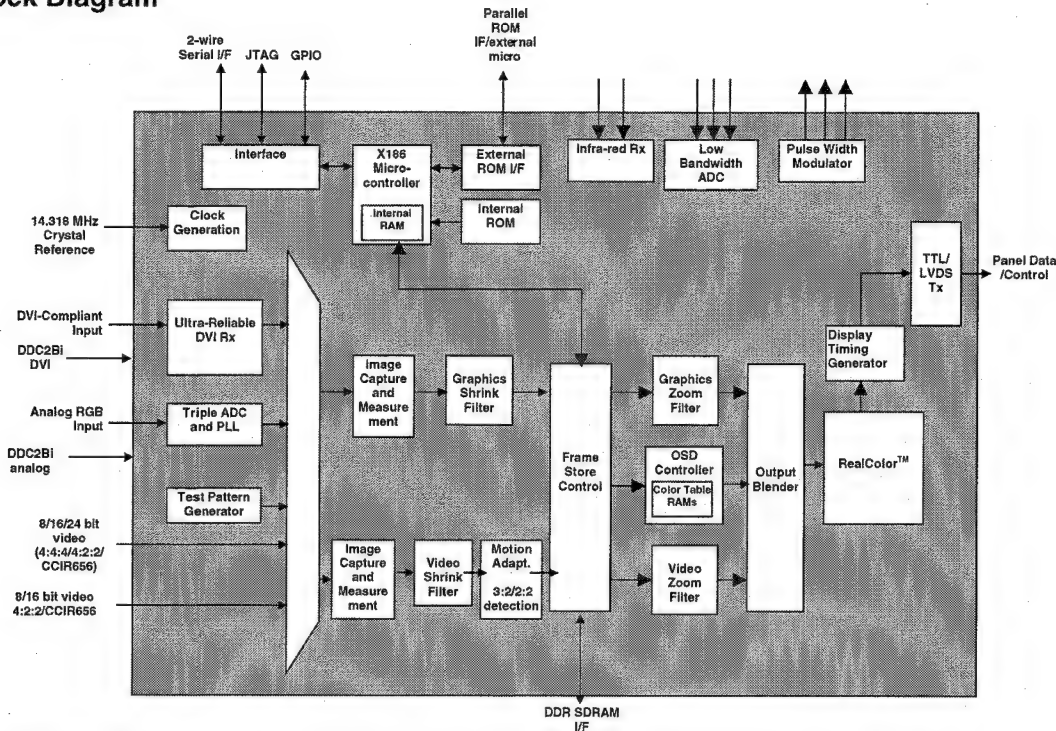
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A	WEB/ DAVB	UVA0 /Di0	UVA2 /Di2	UVA4 /Di4	UVA6 /Di6	UVA8 /Di8	SEL656	TST1	YA2	YA4	YA6	YA8	VA	HREF	SDA	A
B	YB8	VSS	UVA1 /Di1	UVA3 /Di3	UVA5 /Di5	UVA7 /Di7	YA0 /Di9	BISTEN	YA1	YA3	YA5	YA7	WEA/ DAVA	VSS	SCL	B
C	YB7	YB6	VSS	VDDS	VSS	VSS	VDDC	VDDC	VSS	VSS	VDDC	VDDC	VSS	SNDA	SNRST	C
D	YB5	YB4	VDDC	N.C.	<div>COLUMBUS TOP-VIEW</div> <div>PPA Version 2.7</div>								VSS	SNCL	TCK	D
E	YB3	YB2	VSS	VDDC									TMS	TDO	E	
F	TST2	YB1	VSS	VSS									TRST	TDI	F	
G	CLKASB	YB0 /Do9	VDDS	VDDS									A0ICC	RESET	G	
H	CLKASA	UVB8/ Do8	TST3	VDDC									CLK EXT	CLKSEL	H	
J	UVB7 /Do7	UVB6/ Do6	VSS	VSS									CLK	WEN	J	
K	UVB5 /Do5	UVB4/ Do4	VDDC	VSS									CASN	RASN	K	
L	UVB3 /Do3	UVB2 /Do2	VSS	VDDS									DQM	DQ16	L	
M	UVB1 /Do1	UVB0 /Do0	VDDS	VSS									DQ14	DQ15	M	
N	AVD	N.C.	VDDS	VSS	VSS	VDDC	VSS	VDDS	VDDC	VSS	VDDS	VSS	VSS	VDDC	DQ13	N
P	AVS	VSS	A7	A9	A2	A0	A11	DQ7	DQ6	DQ4	DQ3	DQ1	VDDS	VSS	DQ12	P
R	A4	A5	A6	A8	A3	A1	A10	DQ8	VSS	DQ5	VSS	DQ2	DQ9	DQ10	DQ11	R
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	

E\_14600\_059.eps  
200804

Figure 9-4 Pin configuration

9.5.3 Diagram B7+B8+B9, Type GM1501 (IC7801, Genesis)

Block Diagram



Pin Configuration

A	NC	ADC_3.3	ADC_1.8	ADC_1.8	ADC_GND	RXC+	DVI_GND	RX0+	RX1+	RX2+	DVI_GND	LBADC_N3	D_GND
B	BLUE-	BLUE+	ADC_3.3	ADC_GND	DVI_GND	RXC-	DVI_GND	RX0-	RX1-	RX2-	REXT	LBADC_N2	D_GND
C	GREEN-	GREEN+	SOG	ADC_AGND	NC	DVI_1.2	DVI_GND	DVI_3.3	DVI_3.3	DVI_3.3	DVI_3.3	LBADC_N1	LBADC_3.3
D	RED-	RED+	ADC_3.3	ADC_AGND	NC	DVI_1.6	DVI_GND	DVI_1.6	DVI_1.6	DVI_1.6	DVI_GND	LBADC_RETURN	LBADC_GND
E	ADC_AGND	ADC_AGND	ADC_3.3	ADC_AGND									
F	NC	VDD33_PLL	VSSA33_RPLL	VDDA33_RPLL									
G	VDDA33_FPLL	VSSD33_PLL	TCLK	XTAL									
H	VDD33_SDDS	VSSA33_SDDS	VDDA33_SDDS	VSSA33_FPLL									
J	VDD33_DDSD	VSSA33_DDSD	VDDA33_DDSD	VSSD33_SDDS									
K	RESETn	ACS_RSET_HD	NC	VSSD33_DDSD						CORE_1.8	CORE_1.8	D_GND	D_GND
L	OCM_INT2	OCM_INT1	AVSYNC	AHSYNC						D_GND	CORE_1.8	D_GND	D_GND
M	OCM_UD0	OCM_UD1	IR0	IR1						D_GND	D_GND	D_GND	D_GND
N	VGA_SDA	VGA_SCL	DVI_SDA	DVI_SCL						D_GND	D_GND	D_GND	D_GND
P	OCM_CS1n	OCM_CS2n	MSTR_SDA	MSTR_SCL						D_GND	D_GND	D_GND	D_GND
R	ROM_CSn	OCM_REn	OCM_WEn	EXTCLK						D_GND	D_GND	D_GND	D_GND
T	OCMADDR_17	OCMADDR_18	OCMADDR_19	OCM_CS0n						D_GND	CORE_1.8	D_GND	D_GND
U	OCMADDR_13	OCMADDR_14	OCMADDR_15	OCMADDR_16						CORE_1.8	CORE_1.8	D_GND	D_GND
V	OCMADDR_9	OCMADDR_10	OCMADDR_11	OCMADDR_12									
W	OCMADDR_6	OCMADDR_7	OCMADDR_8	IO_3.3									
Y	OCMADDR_3	OCMADDR_4	OCMADDR_5	IO_3.3									
AA	OCMADDR_0	OCMADDR_1	OCMADDR_2	IO_3.3									
AB	OCMDATA13	OCMDATA14	OCMDATA15	IO_3.3									
AC	OCMDATA10	OCMDATA11	OCMDATA12	IO_3.3	GPIO_G08_B2 (DEGRN0)	IO_3.3	DCLK	IO_3.3	GPIO_G07_B2 (DERED4)	IO_3.3	SHIELD[1] (DEGRN3)	VDSB_3.3	
AD	OCMDATA9	OCMDATA6	OCMDATA3	OCMDATA0	GPIO_G08_B0 (DEGRN1)	GPIO_G08_B1 (DORED0)	DEN	GPIO_G08_B3 (DOBLU1)	GPIO_G07_B3 (DERED5)	GPIO_G07_B6 (DERED8)	SHIELD[2] (DEGRN4)	VDSB_3.3	LVDS[1] (DEGRN5)
AE	OCMDATA8	OCMDATA5	OCMDATA2	OCMDATA1	GPIO_G08_B4 (DEBLU0)	GPIO_G08_B5 (DORED1)	GPIO_G08_B8 (DOGRN1)	GPIO_G07_B4 (DERED2)	GPIO_G07_B4 (DERED6)	GPIO_G07_B7 (DERED9)	SHIELD[3] (DEGRN5)	BC+ (DEGRN6)	SHIELD[4] (DEBLU2)
AF	OCMDATA7	OCMDATA4	OCMDATA1	OCMDATA0	GPIO_G08_B1 (DEBLU1)	GPIO_G08_B2 (DOGRN0)	GPIO_G08_B4 (DOBLU0)	GPIO_G07_B1 (DERED3)	GPIO_G07_B5 (DERED7)	SHIELD[0] (DEGRN2)	B3+ (DEGRN6)	B3- (DEGRN7)	BC- (DEGRN9)
	1	2	3	4	5	6	7	8	9	10	11	12	13

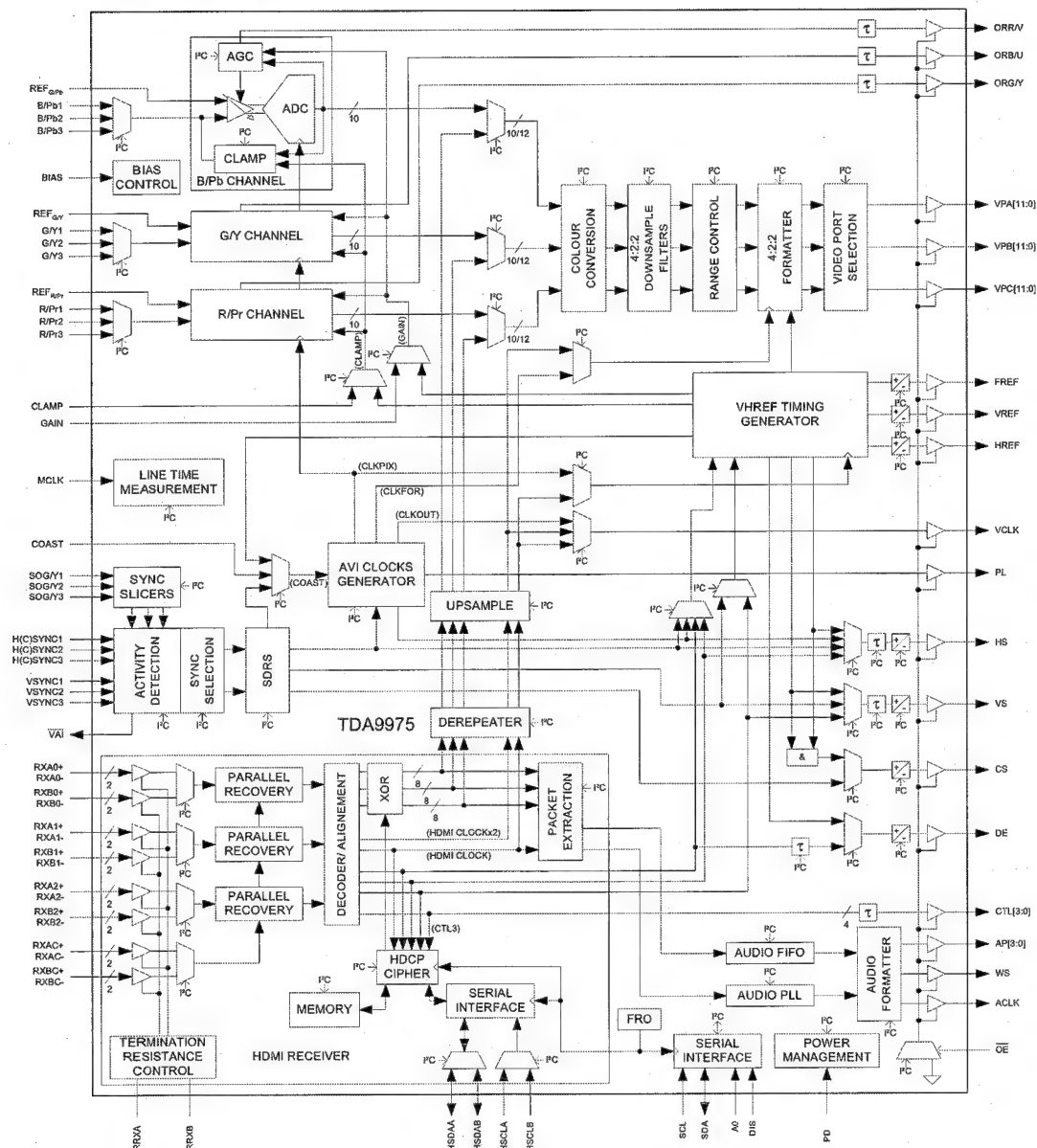
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241204

Figure 9-5 Internal block diagram and pin configuration



## 9.5.4 Diagram B12, Type TDA9975EL (IC7D03, HDMI Panellink), Reserved

## Block Diagram



# 10. Spare Parts List

## Sets Listed

8670 000 23104	26PF5321/10
8670 000 23818	26PF5321/12
8670 000 24193	26PF5321F/10
8670 000 24025	26PF5411/10
8670 000 23846	26PF7321/12
8670 000 23114	32PF5321/10
8670 000 23819	32PF5321/12
8670 000 23944	32PF5411/10
8670 000 23886	32PF7321/12
8670 000 24028	32PF7411/10
8670 000 23117	37PF5321/10
8670 000 23821	37PF5321/12
8670 000 23847	37PF7321/12
8670 000 23946	42PF5421/10

## Set Level

### Various

1004▲	9322 234 12682	LC420W02-SLB1
1068	3104 328 38021	Supply LCD 32"
1099▲	9322 221 01682	LC260WX2-SL01 (LPL)
1099▲	9322 226 16682	LQ315T3LZ33
1099▲	9322 230 03682	LC320W01-SL06
1099▲	9322 231 90682	T260XW02V4
1099▲	9322 233 19682	LC370WX1-SL04
1099▲	9322 234 13682	LC260WX2-SLB2
1112	3139 267 23021	IR/LED Assy ME5P
1112	3104 328 39571	LED panel LC04SD2
1112	3139 267 24041	ASSY IR SD2.1
1114	3104 328 39561	Side control LC04SD2
1114	3139 188 89031	Keyboard & Control Assy
1114	3139 268 02131	Keyboard Assy ME5P
1116	3139 188 89021	Side I/O Assy
1116	3104 328 47601	Side I/O Assy
1116	3139 188 89021	Side I/O Assy
1174	3139 267 26731	Audio Ampl. assy 26/32
1174	3139 268 02421	Audio Stdbv Assy 37W
1188	3122 137 23171	Power Supply Unit 32"
1188▲	3122 137 23191	Power Supply Unit 26"
8002	3104 311 07121	Cable 3p/220/Inlet
8002	3104 311 08061	Cable 2p/3/120/Inlet
8101	3104 311 10171	Cable 3p/1000/3p
8120▲	3104 311 11891	Cable 6p/560/6p
8136▲	3104 311 10291	Cable 11p/820/11p
8150	3104 311 09701	Cable 31p/380/30p
8302▲	3104 311 01281	Cable 7p/820/7p
8302	3104 311 07591	Cable 7p/820/7p
8303	3104 311 08261	Cable 4p/820/4p
8304	3104 311 08291	Cable 4p/680/4p
8307▲	3104 311 04321	Cable 3p/450/9p
8308▲	3104 311 08061	Cable 2p/3/120/Inlet
8309	3104 311 08321	Cable 3p/680/3p
8317▲	3104 311 12071	Cable 12p/1k3/12p
8319▲	3104 311 12081	Cable 14p/180/14p
8320▲	3104 311 08331	Cable 3p/820/3p
8520	3104 311 11571	Cable 14p/140/14p Wh
8520	3139 131 05541	Cable 14p/140/14p
8520	3139 131 06081	Cable Inverter
8520	3139 131 06731	Cable 14p/280/14p
8520	3139 131 07061	Cable 12p/14p/820
8521	3104 311 08191	Cable 12p/1200/12p
8735	3104 311 07491	Cable 2p/3/480/2p
8736	3104 311 07541	Cable 2P3/1200/2p
8870	3139 110 27891	Cable 6p 400
8870	3104 311 09151	Cable 6p/400/6p
8903	3104 311 09141	Cable 4p/560
8903	3104 311 10071	Cable 4p/560
8P06	3104 311 09701	Cable 31p/380/30p
8P06	3139 131 05471	Cable 30p/280/30p
8P06	3139 131 06001	Cable 30p/140/30p

5213	2422 264 00537	Loudsp. 4W 15W
5213	2422 264 00539	Loudsp. 8Ω 15W
5213	2441 257 30020	Loudsp. 8Ω 10W
5214	2441 257 30020	Loudsp. 8Ω 10W



7298	3139 123 22551	SPEAKER FOAM
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## LCD Supply 37" [A]

### Various

0100	4822 070 35002	Fuse 5A
1007▲	4822 071 55002	Fuse T5A 250V
1302	4822 252 60151	Surge protect
1303	4822 252 60151	Surge protect
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1308	4822 265 20723	Connector 2p
1314	4822 265 11253	Fuse holder
1315	4822 265 11253	Fuse holder
1350▲	2422 132 07411	Relay 1p 5V 5A

### —II—

2002	2020 012 00006	680μF 20% 25V
2003	4822 124 80061	1000μF 20% 25V
2006	5322 126 11578	1nF 10% 50V 0603
2007	2020 552 96684	470nF 10% 25V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	4822 126 13881	470pF 5% 50V
2010	4822 124 40207	100μF 20% 25V
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2018	4822 124 12417	2200μF 20% 25V
2019	5322 126 11583	10nF 10% 50V 0603
2020	2020 021 00039	1800μF 20% 35V
2021	4822 126 13881	470pF 5% 50V
2022	2020 021 00039	1800μF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2024	2238 586 59812	100nF 20% 50V 0603
2025	2022 552 05679	1μF 10% 16V 0805
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2033	2022 552 05679	1μF 10% 16V 0805
2034	4822 124 12417	2200μF 20% 25V
2035	5322 126 11578	1nF 10% 50V 0603
2036	5322 126 11578	1nF 10% 50V 0603
2037	4822 126 14238	2.2nF 50V 0603
2038	2020 021 00039	1800μF 20% 35V
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2041	2020 021 00039	1800μF 20% 35V
2042	5322 126 11578	1nF 10% 50V 0603
2043	2020 021 00039	1800μF 20% 35V
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2049	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2051	5322 126 11583	10nF 10% 50V 0603
2052	4822 126 14238	2.2nF 50V 0603
2053	4822 126 13881	470pF 5% 50V
2054	4822 126 13881	470pF 5% 50V
2055	4822 126 14238	2.2nF 50V 0603
2056	4822 126 14238	2.2nF 50V 0603
2057	4822 126 14238	2.2nF 50V 0603
2058	2238 867 18101	100pF 1% 50V 0603
2059	2222 375 24153	15nF 5% 1kV
2060	2222 375 24153	15nF 5% 1kV
2061	2238 867 18101	100pF 1% 50V 0603
2062	2238 867 18101	100pF 1% 50V 0603
2063	2238 586 59812	100nF 20% 50V 0603
2300▲	2222 339 22474	470μF 20% 275V
2301▲	2222 339 22474	470μF 20% 275V
2307▲	2252 811 95065	220pF 10% 250V
2316	2020 024 00001	330μF 20% 400V
2318▲	2252 811 95065	220pF 10% 250V
2319	2222 338 22105	1μF 20% 275V
2320	2020 024 00001	330μF 20% 400V

### —III—

3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30222	2.2kΩ 5% 0.062W
3003	4822 051 30472	4.7Ω 5% 0.062W

3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30223	22kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30332	3.3Ω 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30332	3.3Ω 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 051 20229	22kΩ 5% 0.1W
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30103	10kΩ 5% 0.062W
3025	4822 051 30152	1.5Ω 5% 0.062W
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0.0603 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3029	4822 051 30332	3.3Ω 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30103	10kΩ 5% 0.062W
3032	4822 051 30223	22kΩ 5% 0.062W
3033	4822 051 30561	560Ω 5% 0.062W
3034	4822 051 30471	47Ω 5% 0.062W
3035	4822 051 30101	100Ω 5% 0.062W
3036	4822 051 30103	10kΩ 5% 0.062W
3037	4822 051 30153	15kΩ 5% 0.062W
3039	4822 051 30102	1kΩ 5% 0.062W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3042	4822 051 30222	2.2kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3044	4822 051 30103	10kΩ 5% 0.062W
3045	4822 051 20229	22kΩ 5% 0.1W
3046	4822 051 20229	22kΩ 5% 0.1W
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W
3049	4822 117 13632	100kΩ 1% 0.0603 0.62W
3051	4822 051 30103	10kΩ 5% 0.062W
3052	4822 051 30153	15kΩ 5% 0.062W
3054	4822 051 30683	68kΩ 5% 0.062W
3055	4822 051 30221	220Ω 5% 0.062W
3056	4822 051 30221	220Ω 5% 0.062W
3057	4822 051 30221	220Ω 5% 0.062W
3059	5322 117 13019	100kΩ 1% 0.063W 0603
3060	4822 051 30103	10kΩ 5% 0.062W
3061	4822 051 30332	3.3Ω 5% 0.062W
3062	4822 051 30332	3.3Ω 5% 0.062W
3063	4822 051 30103	10kΩ 5% 0.062W
3065	4822 051 30102	1kΩ 5% 0.062W
3071	4822 050 25602	5K60 1% 0.6W
3073	4822 050 25602	5K60 1% 0.6W
3076	4822 050 25602	5K60 1% 0.6W
3077	4822 050 25602	5K60 1% 0.6W
3078	4822 050 25602	5K60 1% 0.6W
3079	4822 050 25602	5K60 1% 0.6W
3081	4822 050 25602	5K60 1% 0.6W
3082	4822 050 25602	5K60 1% 0.6W
3083	4822 050 25602	5K60 1% 0.6W
3085	4822 050 25602	5K60 1% 0.6W
3086	4822 050 25602	5K60 1% 0.6W
3087	4822 050 25602	5K60 1% 0.6W
3089	4822 051 30103	10kΩ 5% 0.062W
3300▲	2122 550 00158	VDR 1mA 612V
3301▲	4822 053 21475	4.7MΩ 5% 0.5W
3302▲	4822 053 21475	4.7MΩ 5% 0.5W
3303▲	4822 053 21475	4.7MΩ 5% 0.5W
3304	4822 116 83872	220Ω 5% 0.5W
3305	4822 116 83872	220Ω 5% 0.5W
3306	4822 051 30102	1kΩ 5% 0.062W
3308	4822 053 11223	22kΩ 5% 2W
3318	4822 053 10471	470Ω 5% 1W
3999	4822 051 30102	1kΩ 5% 0.062W

5001	2422 531 02444	S13932-04Y
5002	3104 308 21211	BS51321-02 B
5005	4822 526 10704	Bead 50 Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 526 10704	Bead 50 Ω at 100MHz

5011	3104 308 21211	BS51321-02 B
5012	4822 526 10704	Bead 50 Ω at 100MHz
5013	4822 526 10704	Bead 50 Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5018	2422 535 94636	3.3μF 20%
5019	2422 536 00776	33μH 10%
5020	2422 536 00776	33μH 10%
5021	4822 157 11411	Bead 80Ω at 100MHz
5022	4822 157 11411	Bead 80Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5303	3104 308 21201	Line filter DTH40383H65



6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	9340 548 71115	PDZ33B
6015	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6018	4822 130 11152	UDZ18B
6019	9322 173 47687	STPS20L40CFP
6021	4822 130 11596	BYW29EX-200
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6024	9322 202 55685	BYG22D
6025	9322 202 55685	BYG22D
6026	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6029	4822 130 11596	BYW29EX-200
6030	4822 130 11596	BYW29EX-200
6031	4822 130 11596	BYW29EX-200
6032	9322 202 55685	BYG22D
6033	9322 202 55685	BYG22D
6038	4822 130 11397	BAS316
6040	4822 130 11596	BYW29EX-200
6041	4822 130 11596	BYW29EX-200
6304	4822 130 11397	BAS316
6305	4822 130 11397	BAS316
6306	4822 130 83147	DF06M
6307	9322 199 74682	GBJ6J-B15
6314	9340 292 50135	BZG03-C200
6315	9340 292 50135	BZG03-C200
6316	9340 548 71115	PDZ33B
6318	4822 130 11397	BAS316
6360	4822 130 11397	BAS316
6361	4822 130 11397	BAS316



7001	9322 108 21682	MC34067P
7003	3198 010 42310	BC847BW
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	9322 192 16685	TS2431AI
7011	3198 010 42320	BC857BW
7012	3198 010 42310	BC847BW
7307▲	9322 149 04682	TCET1102

## LCD Supply 42" [A]

## Various

1303	2422 025 04475	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1308	4822 265 20723	Connector 2p
1309	2422 025 11143	Connector 3p m
1320	2422 025 11143	Connector 3p m
1400▲	4822 070 33152	Fuse 3.15A
1402	4822 252 60151	Surge protect
1405▲	4822 265 11253	Fuse holder
1410▲	4822 265 11253	Fuse holder

1420	3104 311 08391	Cable 3p/140/3p Wh
1450▲	2422 132 07411	Relay 1p 5V 5A
1B06	4822 267 10735	Connector 3p
1C05	4822 267 10735	Connector 3p
1D00▲	4822 070 33152	Fuse 3.15A
1D02	4822 252 60151	Surge protect
1D10▲	4822 265 11253	Fuse holder
1D50▲	2422 132 07411	Relay 1p 5V 5A
1M02	2422 025 11244	Connector 7p m
1U07▲	2422 086 00678	Fuse 5A T 250V



2002	4822 124 11767	470μF 20% 25V
2003	4822 124 80061	1000μF 20% 25V
2007	2020 552 96684	470nF 10% 25V 0805
2008	4822 126 14583	470nF 10% 16V 0805
2009	2238 867 18101	100pF 1% 50V 0603
2010	4822 124 40207	100μF 20% 25V
2011	4822 121 70617	10nF 5% 1.6kV
2012	4822 126 13862	1.5nF 10% 2kV
2013	4822 126 13862	1.5nF 10% 2kV
2014	4822 126 13451	2.2nF 10% 2kV
2015	5322 126 11583	10nF 10% 50V 0603
2016	2238 586 59812	100nF 20% 50V 0603
2017	4822 121 70617	10nF 5% 1.6kV
2019	5322 126 11583	10nF 10% 50V 0603
2020	4822 124 12285	2200μF 20% 16V
2021	2238 867 18101	100pF 1% 50V 0603
2022	2020 021 00039	1800μF 20% 35V
2023	2020 552 96684	470nF 10% 25V 0805
2024	2020 552 96326	220nF 10% 16V
2025	4822 121 51319	1μF 10% 63V
2026	4822 126 14238	2.2nF 50V 0603
2028	5322 126 11578	1nF 10% 50V 0603
2029	5322 126 11578	1nF 10% 50V 0603
2031	5322 126 11583	10nF 10% 50V 0603
2032	4822 126 13193	4.7nF 10% 63V
2033	4822 121 51319	1μF 10% 63V
2034	2238 867 18101	100pF 1% 50V 0603
2035	5322 126 11578	1nF 10% 50V 0603
2038	2020 021 00039	1800μF 20% 35V
2039	5322 126 11583	10nF 10% 50V 0603
2040	4822 126 14249	560pF 10% 50V 0603
2044	5322 126 11578	1nF 10% 50V 0603
2045	5322 126 11578	1nF 10% 50V 0603
2046	3198 017 34730	47nF 16V 0603
2047	5322 126 11583	10nF 10% 50V 0603
2048	5322 126 11578	1nF 10% 50V 0603
2050	5322 126 11578	1nF 10% 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	4822 126 14238	2.2nF 50V 0603
2063	4822 126 13881	470pF 5% 50V
2064	4822 126 13881	470pF 5% 50V
2065	4822 126 14238	2.2nF 50V 0603
2071	5322 126 11578	1nF 10% 50V 0603
2072	5322 126 11578	1nF 10% 50V 0603
2077	4822 126 14238	2.2nF 50V 0603
2290	5322 126 11583	10nF 10% 50V 0603
2400▲	2222 338 22474	470nF 20% 275V
2401▲	2222 338 22474	470nF 20% 275V
2405▲	2020 554 90167	220pF 10% 250V
2407▲	2020 554 90167	220pF 10% 250V
2816	2020 024 90749	330μF 20% 400V
2817	4822 121 70162	10nF 5% 400V
2B90	5322 126 11583	10nF 10% 50V 0603
2B91	4822 126 13881	470pF 5% 50V
2B92	4822 124 12417	2200μF 20% 25V
2B93	4822 126 13881	470pF 5% 50V
2B94	4822 124 12417	2200μF 20% 25V
2D00▲	2222 338 22474	470nF 20% 275V
2D01▲	2222 338 22474	470nF 20% 275V
2D05▲	2020 554 90167	220pF 10% 250V
2D07▲	2020 554 90167	220pF 10% 250V
2H16	2020 024 90749	330μF 20% 400V
2H17	4822 121 70162	10nF 5% 400V
2U02	4822 124 11767	470μF 20% 25V
2U03	4822 124 80061	1000μF 20% 25V
2U07	2020 552 96684	470nF 10% 25V 0805
2U08	4822 126 14583	470nF 10% 16V 0805
2U09	2238 867 18101	100pF 1% 50V 0603
2U10	4822 124 40207	100μF 20% 25V
2U11	4822 121 70617	10nF 5% 1.6kV
2U12	4822 126 13862	1.5nF 10% 2kV
2U13	4822 126 13862	1.5nF 10% 2kV
2U14	4822 126 13451	2.2nF 10% 2kV
2U15	5322 126 11583	10nF 10% 50V 0603
2U16	2238 586 59812	100nF 20% 50V 0603
2U17	4822 121 70617	10nF 5% 1.6kV
2U19	5322 126 11583	10nF 10% 50V 0603
2U21	2238 867 18101	100pF 1% 50V 0603
2U22	2020 021 00039	1800μF 20% 35V

2U23	2020 552 96684	470nF 10% 25V 0805
2U24	2020 552 96326	220nF 10% 16V
2U25	4822 121 51319	1μF 10% 63V
2U26	4822 126 14238	2.2nF 50V 0603
2U29	5322 126 11578	1nF 10% 50V 0603
2U32	4822 126 13193	4.7nF 10% 63V
2U33	4822 121 51319	1μF 10% 63V
2U34	2238 867 18101	100pF 1% 50V 0603
2U38	2020 021 00039	1800μF 20% 35V
2U39	5322 126 11583	10nF 10% 50V 0603
2U40	4822 126 14249	560pF 10% 50V 0603
2U45	5322 126 11578	1nF 10% 50V 0603
2U46	3198 017 34730	47nF 16V 0603
2U47	5322 126 11583	10nF 10% 50V 0603
2U48	5322 126 11578	1nF 10% 50V 0603
2U50	5322 126 11578	1nF 10% 50V 0603
2U60	4822 126 14238	2.2nF 50V 0603
2U61	4822 126 14238	2.2nF 50V 0603
2U62	4822 126 14238	2.2nF 50V 0603
2U63	4822 126 13881	470pF 5% 50V
2U64	4822 126 13881	470pF 5% 50V
2U65	4822 126 14238	2.2nF 50V 0603
2U71	5322 126 11578	1nF 10% 50V 0603
2U72	5322 126 11578	1nF 10% 50V 0603
2U77	4822 126 14238	2.2nF 50V 0603



3000▲	4822 052 10478	4.7Ω 5% 0.33W
3001	4822 051 30101	100Ω 5% 0.062W
3002	4822 051 30103	10kΩ 5% 0.062W
3003	4822 117 13632	100kΩ 1% 0.063 0.62W
3004	4822 051 30273	27kΩ 5% 0.062W
3005	4822 051 30333	33kΩ 5% 0.062W
3006	4822 051 30103	10kΩ 5% 0.062W
3007	4822 051 30103	10kΩ 5% 0.062W
3008	4822 051 30331	330Ω 5% 0.062W
3009	4822 051 30332	3.3Ω 5% 0.062W
3010	4822 051 30471	47Ω 5% 0.062W
3011	4822 051 30471	47Ω 5% 0.062W
3012	4822 051 30153	15kΩ 5% 0.062W
3013	4822 051 30103	10kΩ 5% 0.062W
3014▲	4822 052 10101	100Ω 5% 0.33W
3015▲	4822 052 10479	47Ω 5% 0.33W
3016	4822 051 30222	2.2kΩ 5% 0.062W
3017▲	4822 052 10101	100Ω 5% 0.33W
3018▲	4822 052 10479	47Ω 5% 0.33W
3019	4822 051 30222	2.2kΩ 5% 0.062W
3020	4822 051 30222	2.2kΩ 5% 0.062W
3021	3198 021 32290	22Ω 5% 0.063
3022	4822 051 30681	680Ω 5% 0.062W
3023	4822 051 30153	15kΩ 5% 0.062W
3025	3198 021 31820	1.8kΩ 5% 0.062W 0603
3026	2120 368 90118	Potm. lin. 470Ω hor.
3027	4822 117 13632	100kΩ 1% 0.063 0.62W
3028	4822 051 30102	1kΩ 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3030	4822 051 30183	18kΩ 5% 0.062W
3031	4822 051 30223	2.2kΩ 5% 0.062W
3032	4822 051 30103	10kΩ 5% 0.062W
3034	4822 051 30102	1kΩ 5% 0.062W
3037	4822 051 30153	15kΩ 5% 0.062W
3038	4822 051 30333	33kΩ 5% 0.062W
3040	3198 021 38220	8.2kΩ 5% 0.062W 0603
3041	4822 051 30333	33kΩ 5% 0.062W
3043	4822 051 30109	10Ω 5% 0.062W
3045	3198 021 32290	22Ω 5% 0.063
3046	3198 021 32290	22Ω 5% 0.063
3047	4822 051 30479	47Ω 5% 0.062W
3048	4822 051 30272	2.7kΩ 5% 0.062W



3406▲	4822 052 10101	100Ω 5% 0.33W
3407▲	4822 052 10101	100Ω 5% 0.33W
3999	4822 051 30102	1kΩ 5% 0.062W
3B92	4822 051 30561	560Ω 5% 0.062W
3D00▲	2122 550 00158	VDR 1mA 612V
3D04	4822 116 83872	220Ω 5% 0.5W
3U00▲	4822 052 10478	4.7Ω 5% 0.33W
3U01	4822 051 30101	100Ω 5% 0.062W
3U02	4822 051 30103	10kΩ 5% 0.062W
3U03	4822 117 13632	100kΩ 1% 0.603 0.62W
3U04	4822 051 30273	27kΩ 5% 0.062W
3U05	4822 051 30333	33kΩ 5% 0.062W
3U06	4822 051 30103	10kΩ 5% 0.062W
3U07	4822 051 30103	10kΩ 5% 0.062W
3U08	4822 051 30331	330Ω 5% 0.062W
3U09	4822 051 30332	3.3kΩ 5% 0.062W
3U10	4822 051 30471	47Ω 5% 0.062W
3U11	4822 051 30471	47Ω 5% 0.062W
3U12	4822 051 30153	15kΩ 5% 0.062W
3U13	4822 051 30103	10kΩ 5% 0.062W
3U14▲	4822 052 10101	100Ω 5% 0.33W
3U15▲	4822 052 10479	47Ω 5% 0.33W
3U16	4822 051 30222	2.2kΩ 5% 0.062W
3U17▲	4822 052 10101	100Ω 5% 0.33W
3U18▲	4822 052 10479	47Ω 5% 0.33W
3U19	4822 051 30222	2.2kΩ 5% 0.062W
3U20	4822 051 30222	2.2kΩ 5% 0.062W
3U21	3198 021 32290	22Ω 5% 0.603
3U22	4822 051 30331	330Ω 5% 0.062W
3U23	4822 051 30153	15kΩ 5% 0.062W
3U24	2322 704 61803	18kΩ 1% 0.603
3U25	3198 021 31820	1.8kΩ 5% 0.062W 0603
3U26	2120 368 90118	Potm. lin. 470Ω hor.
3U27	4822 117 13632	100kΩ 1% 0.603 0.62W
3U28	4822 051 30102	1kΩ 5% 0.062W
3U29	4822 051 30222	2.2kΩ 5% 0.062W
3U30	4822 051 30183	18kΩ 5% 0.062W
3U31	4822 051 30223	22kΩ 5% 0.062W
3U32	4822 051 30103	10kΩ 5% 0.062W
3U34	4822 051 30102	1kΩ 5% 0.062W
3U38	4822 051 30333	33kΩ 5% 0.062W
3U39	4822 051 30331	330Ω 5% 0.062W
3U40	3198 021 38220	8.2kΩ 5% 0.062W 0603
3U41	4822 051 30333	33kΩ 5% 0.062W
3U43	4822 051 30109	10Ω 5% 0.062W
3U45	3198 021 32290	22Ω 5% 0.603
3U46	3198 021 32290	22Ω 5% 0.603
3U47	4822 051 30479	47Ω 5% 0.062W
3U48	4822 051 30272	2.7kΩ 5% 0.062W
3U50	4822 050 28204	820kΩ 1% 0.6W
3U52	4822 051 30221	220Ω 5% 0.062W
3U53	4822 050 26804	680kΩ 1% 0.6W
3U55	4822 051 30221	220Ω 5% 0.062W
3U56	4822 051 30221	220Ω 5% 0.062W
3U57	4822 051 30221	220Ω 5% 0.062W
3U58	4822 053 20565	5.6MΩ 5% 0.25W
3U61	4822 051 30683	68kΩ 5% 0.062W
3U64	4822 051 30103	10kΩ 5% 0.062W
3U65	4822 117 12925	47kΩ 1% 0.063W 0603
3U66	4822 051 30103	10kΩ 5% 0.062W
3U67	4822 051 30101	100Ω 5% 0.062W
3U68	4822 051 30222	2.2kΩ 5% 0.062W
3U70	4822 051 30102	1kΩ 5% 0.062W
3U71	4822 051 30103	10kΩ 5% 0.062W
3U75	4822 051 30102	1kΩ 5% 0.062W
3U89	4822 051 30103	10kΩ 5% 0.062W

5001	2422 531 02444	S13932-04Y
5002▲	3104 308 21111	BS51312-01
5004	4822 526 10704	Bead 50 Ω at 100MHz
5005	4822 157 11411	Bead 80Ω at 100MHz
5007	4822 526 10704	Bead 50 Ω at 100MHz
5008	4822 157 11411	Bead 80Ω at 100MHz
5009	4822 157 11411	Bead 80Ω at 100MHz
5010	4822 157 11411	Bead 80Ω at 100MHz
5013	4822 157 11411	Bead 80Ω at 100MHz
5015	4822 157 11411	Bead 80Ω at 100MHz
5016	4822 157 11411	Bead 80Ω at 100MHz
5017	4822 526 10704	Bead 50 Ω at 100MHz
5025	4822 157 11411	Bead 80Ω at 100MHz
5026	4822 157 11411	Bead 80Ω at 100MHz
5027	4822 157 11411	Bead 80Ω at 100MHz
5028	4822 157 11411	Bead 80Ω at 100MHz
5040	4822 157 11411	Bead 80Ω at 100MHz
5041	4822 526 10704	Bead 50 Ω at 100MHz
5400▲	2422 549 43286	Filt. DMF2835H*B
5403	3104 308 21201	Line filter DTH40383H65
5B91	2422 536 00776	33μH 10%
5B92	2422 536 00776	33μH 10%
5B93	2422 536 00776	33μH 10%
5D00▲	2422 549 43286	Filt. DMF2835H*B

5D03	3104 308 21201	Line filter DTH40383H65
5U01	2422 531 02444	S13932-04Y
5U02▲	3104 308 21111	BS51312-01
5U04	4822 526 10704	Bead 50 Ω at 100MHz
5U05	4822 157 11411	Bead 80Ω at 100MHz
5U07	4822 526 10704	Bead 50 Ω at 100MHz
5U08	4822 157 11411	Bead 80Ω at 100MHz
5U09	4822 157 11411	Bead 80Ω at 100MHz
5U10	4822 157 11411	Bead 80Ω at 100MHz
5U13	4822 157 11411	Bead 80Ω at 100MHz
5U15	4822 157 11411	Bead 80Ω at 100MHz
5U16	4822 157 11411	Bead 80Ω at 100MHz
5U17	4822 526 10704	Bead 50 Ω at 100MHz
5U25	4822 157 11411	Bead 80Ω at 100MHz
5U26	4822 157 11411	Bead 80Ω at 100MHz
5U40	4822 157 11411	Bead 80Ω at 100MHz
5U41	4822 526 10704	Bead 50 Ω at 100MHz



6001	4822 130 11397	BAS316
6002	4822 130 11397	BAS316
6003	4822 130 11397	BAS316
6004	4822 130 80622	BAT54
6005	4822 130 80622	BAT54
6006	4822 130 11397	BAS316
6007	4822 130 11397	BAS316
6008	4822 130 11397	BAS316
6009	4822 130 11152	UDZ18B
6010	4822 130 11397	BAS316
6011	4822 130 11397	BAS316
6012	9322 208 80685	BZG05C15
6013	9322 208 80685	BZG05C15
6014	4822 130 11596	BYW29EX-200
6015	9340 548 67115	PDZ22B
6016	4822 130 11397	BAS316
6017	4822 130 11397	BAS316
6020	4822 130 11397	BAS316
6021	9322 192 03687	STPS20H100CFP
6022	4822 130 11148	UDZ4.7B
6023	4822 130 11397	BAS316
6027	4822 130 11397	BAS316
6028	4822 130 11397	BAS316
6044	9322 207 11687	STPS20L45CT
6051	4822 130 11397	BAS316
6077	9322 202 55685	BYG22D
6078	5322 130 31938	BYV27-200
6079	9322 202 55685	BYG22D
6080	9322 202 55685	BYG22D
6081	9340 548 67115	PDZ22B
6156	9322 099 61685	BYG10J
6157	9322 099 61685	BYG10J
6158	9322 099 61685	BYG10J
6159	9322 099 61685	BYG10J
6460	4822 130 11397	BAS316
6461	4822 130 11397	BAS316
6506	4822 130 83147	DF06M
6807	9322 199 74682	GBJ6J-B15
6B91	4822 130 11596	BYW29EX-200
6B93	4822 130 11596	BYW29EX-200
6D60	4822 130 11397	BAS316
6D61	4822 130 11397	BAS316
6H07	9322 199 74682	GBJ6J-B15
6U01	4822 130 11397	BAS316
6U02	4822 130 11397	BAS316
6U03	4822 130 11397	BAS316
6U04	4822 130 80622	BAT54
6U05	4822 130 80622	BAT54
6U06	4822 130 11397	BAS316
6U07	4822 130 11397	BAS316
6U08	4822 130 11397	BAS316
6U09	4822 130 11152	UDZ18B
6U10	4822 130 11397	BAS316
6U11	4822 130 11397	BAS316
6U12	9322 208 80685	BZG05C15
6U13	9322 208 80685	BZG05C15
6U15	9340 548 67115	PDZ22B
6U16	4822 130 11397	BAS316
6U17	4822 130 11397	BAS316
6U20	4822 130 11397	BAS316
6U21	9322 192 03687	STPS20H100CFP
6U22	4822 130 11148	UDZ4.7B
6U23	4822 130 11397	BAS316
6U27	4822 130 11397	BAS316
6U28	4822 130 11397	BAS316
6U51	4822 130 11397	BAS316
6U77	9322 202 55685	BYG22D
6U78	5322 130 31938	BYV27-200
6U79	9322 202 55685	BYG22D
6U81	9340 548 67115	PDZ22B



7001	9322 108 21682	MC34067P
7002▲	9322 149 04682	TCET1102
7004	3198 010 42310	BC847BW
7005	9322 192 18687	STP15NK50ZFP
7006	9322 192 18687	STP15NK50ZFP
7007	3198 010 42320	BC857BW
7008	3198 010 42320	BC857BW
7009	3198 010 42320	BC857BW
7010	4822 209 16406	TL431ACD
7017	3198 010 42320	BC857BW
7018	3198 010 42310	BC847BW
7030	3198 010 42310	BC847BW
7U01	9322 108 21682	MC34067P
7U02▲	9322 149 04682	TCET1102
7U04	3198 010 42310	BC847BW
7U05	9322 192 18687	STP15NK50ZFP
7U06	9322 192 18687	STP15NK50ZFP
7U07	3198 010 42320	BC857BW
7U08	3198 010 42320	BC857BW
7U09	3198 010 42320	BC857BW
7U10	4822 209 16406	TL431ACD
7U17	3198 010 42320	BC857BW
7U18	3198 010 42310	BC847BW
7U30	3198 010 42310	BC847BW

## Small Signal Board [B]



Software (see Philips Service Website)

0801	Downloadable file
0802	Downloadable file
0811	Downloadable file
0812	Downloadable file
0821	Downloadable file
0822	Downloadable file

## Various

1119	3139 267 22741	OTC Flash Assy
1151	2422 025 18749	Connector 3p m
1152	3139 147 19801	Tuner UV1318S/A IH -3
1154	4822 242 81436	Filter OFWK3953M
1154	9322 042 72682	Filter OFWK3953M
1156	2422 549 44341	38.9MHz OFWK9656M
1177	2422 025 18749	Connector 3p m
1202	2422 543 01414	Xtal 24.576MHz
1442	2422 025 19085	Connector 14p m
1801	2422 543 01133	Xtal 14.32MHz 20pF
1F01	2422 026 05647	Cinch 2P F 2L1
1F02	2422 033 00505	Socket HDMI 19p f
1F03	2422 033 00505	Socket HDMI 19p f
1G01	2422 025 19508	Combi 3X Cinch/SCART
1G02	2422 025 19509	Combi 2X Cinch/SCART
1J00	2422 025 10771	Connector 10p m
1J01	2422 025 10655	Connector 11p m
1J02	2422 025 10772	Connector 12p m
1J03	2422 025 10768	Connector 3p m
1J04	2422 025 10769	Connector 9p m
1J07	2422 086 11081	Fuse T3A 125V
1J08	2422 549 45333	Bead 120Ω at 100MHz
1K00	2422 025 08149	Connector 6p m
1K01	2422 025 10772	Connector 12p m
1K02	2422 025 10768	Connector 3p m
1K04	2422 025 10655	Connector 11p m
1L35	2422 543 01133	Xtal 14.32MHz 20pF
1N02	2422 540 00017	Reson. 60MHz CSTCW
1N03	2422 025 18779	Connector 4p m
1N04	2422 025 18779	Connector 4p m
1N05	8203 312 13540	Marking Switch
1N11	2422 549 45325	Bead 67Ω at 100MHz
1N12	2422 549 45325	Bead 67Ω at 100MHz
1N13	2422 549 45325	Bead 67Ω at 100MHz
1N14	2422 549 45325	Bead 67Ω at 100MHz
1N15	2422 549 45325	Bead 67Ω at 100MHz
1N16	2422 025 18772	Connector 30p m
1N17	2422 025 18427	Connector 31p f
1N19	2422 025 18734	Connector 11p m
8000	3139 131 07211	Cable 14p/180/14p
8322	3104 311 09221	Cable 10p/220/10p Wh
8337	3104 311 11551	Cable 11p/220/11p Wh
8J02	3139 131 05901	Cable 12p/280/12p
8J03	3104 311 10051	Cable 3p/100/3p Wh
8J03	3139 110 27651	Cable 3p/100/3p
8J04	3104 311 06811	Cable 9p/340/9p
8J04	3104 311 09251	Cable 9p/140/9p
8J04	3139 111 04551	Cable 9p/140/09p
8K01	3104 311 07951	Cable 11p/680/11p
8K01	3139 131 05901	Cable 12p/280/12p

—II—			2610	2020 552 96834	1µF 20% 6.3V 0402	2918	3198 035 71040	100nF 10% 16V 0402
			2611	4822 124 12095	100µF 20% 16V	2919	3198 035 71040	100nF 10% 16V 0402
			2612	3198 017 41050	1µF 10V 0603	2920	3198 035 71040	100nF 10% 16V 0402
2151	4822 124 12095	100µF 20% 16V	2613	3198 017 41050	1µF 10V 0603	2921	3198 035 71040	100nF 10% 16V 0402
2152	5322 126 11583	10nF 10% 50V 0603	2614	3198 035 71040	100nF 10% 16V 0402	2922	3198 035 71040	100nF 10% 16V 0402
2153	5322 126 11583	10nF 10% 50V 0603	2615	2022 031 00373	470µF 20% 16V	2923	3198 035 71040	100nF 10% 16V 0402
2154	4822 122 33761	22pF 5% 50V	2616	2020 552 00183	2.2µF 10% 6.3V 0603	2924	3198 035 71040	100nF 10% 16V 0402
2155	4822 122 33761	22pF 5% 50V	2617	2020 552 00183	2.2µF 10% 6.3V 0603	2925	3198 035 71040	100nF 10% 16V 0402
2156	5322 126 11583	10nF 10% 50V 0603	2618	2022 031 00373	470µF 20% 16V	2926	3198 035 71040	100nF 10% 16V 0402
2157	3198 024 44730	47nF 50V 0603	2619	4822 124 11131	47µF 6.3V	2927	3198 035 71040	100nF 10% 16V 0402
2158	3198 030 82280	2.2µF 20% 50V	2701	2238 869 15101	100pF 5% 50V 0402	2928	3198 035 71040	100nF 10% 16V 0402
2159	5322 124 41945	22µF 20% 35V	2702	3198 035 71040	100nF 10% 16V 0402	2929	3198 035 71040	100nF 10% 16V 0402
2160	4822 124 12095	100µF 20% 16V	2704	4822 124 23002	10µF 16V	2930	3198 035 71040	100nF 10% 16V 0402
2203	4822 124 23002	10µF 16V	2706	4822 124 23002	10µF 16V	2931	3198 035 71040	100nF 10% 16V 0402
2204	2020 012 00029	330µF 6.3V	2709	4822 124 80151	47µF 16V	2932	3198 035 71040	100nF 10% 16V 0402
2206	2020 552 00183	2.2µF 10% 6.3V 0603	2710	2020 552 00211	22µF 10% 16V 1210	2933	3198 035 71040	100nF 10% 16V 0402
2207	2020 552 96718	220nF 10% 6.3V 0402	2710	2020 552 00231	22µF 20%	2934	4822 124 80151	47µF 16V
2208	4822 124 12084	1µF 20% 50V	2711	2020 552 00211	22µF 10% 16V 1210	2935	3198 035 71040	100nF 10% 16V 0402
2210	2020 552 96718	220nF 10% 6.3V 0402	2711	2020 552 00231	22µF 20%	2936	3198 035 71040	100nF 10% 16V 0402
2211	2020 552 96628	10nF 10% 16V 0402	2716	2020 012 00028	470µF 20% 16V	2937	3198 035 71040	100nF 10% 16V 0402
2212	3198 035 71040	100nF 10% 16V 0402	2716	2022 031 00371	470µF 20% 16V	2938	3198 035 71040	100nF 10% 16V 0402
2214	3198 035 03310	330pF 5% 50V 0402	2717	2020 552 96628	10nF 10% 16V 0402	2939	3198 035 71040	100nF 10% 16V 0402
2216	3198 035 03310	330pF 5% 50V 0402	2717	3198 035 71040	100nF 10% 16V 0402	2940	4822 124 80151	47µF 16V
2218	3198 035 71040	100nF 10% 16V 0402	2718	3198 035 71040	100nF 10% 16V 0402	2941	3198 035 71040	100nF 10% 16V 0402
2221	4822 124 12095	100µF 20% 16V	2719	3198 035 71040	100nF 10% 16V 0402	2942	3198 035 71040	100nF 10% 16V 0402
2222	2020 012 00029	330µF 6.3V	2720	2020 552 96618	1nF 10% 50V 0402	2945	5322 124 41945	22µF 20% 35V
2223	2238 869 15101	100pF 5% 50V 0402	2721	3198 035 71040	100nF 10% 16V 0402	2946	3198 035 71040	100nF 10% 16V 0402
2225	2020 552 96618	1nF 10% 50V 0402	2722	2020 552 96618	1nF 10% 50V 0402	2947	3198 035 71040	100nF 10% 16V 0402
2226	3198 035 03320	3.3nF 5% 50V 0402	2723	3198 035 74730	47nF 5% 16V 0402	2948	3198 035 71040	100nF 10% 16V 0402
2227	2020 552 96618	1nF 10% 50V 0402	2724	3198 016 31020	1nF 25V 0603	2949	3198 035 71040	100nF 10% 16V 0402
2228	3198 035 71040	100nF 10% 16V 0402	2725	3198 016 31020	1nF 25V 0603	2950	5322 124 41945	22µF 20% 35V
2230	3198 035 71040	100nF 10% 16V 0402	2726	2022 031 00373	470µF 20% 16V	2951	3198 035 71040	100nF 10% 16V 0402
2231	2020 552 96718	220nF 10% 6.3V 0402	2727	2020 552 96628	10nF 10% 16V 0402	2952	3198 035 71040	100nF 10% 16V 0402
2232	3198 035 71040	100nF 10% 16V 0402	2730	2020 552 00211	22µF 10% 16V 1210	2953	3198 035 71040	100nF 10% 16V 0402
2233	4822 124 23002	10µF 16V	2730	2020 552 00231	22µF 20%	2954	3198 035 71040	100nF 10% 16V 0402
2234	2020 552 96718	220nF 10% 6.3V 0402	2731	2022 031 00373	470µF 20% 16V	2955	5322 124 41945	22µF 20% 35V
2235	2020 552 96718	220nF 10% 6.3V 0402	2733	3198 035 02210	220pF 5% 50V 0402	2956	3198 035 71040	100nF 10% 16V 0402
2236	4822 126 14076	220nF +80/-20% 25V	2734	2020 552 96455	22nF 10% 16V 0402	2957	3198 035 71040	100nF 10% 16V 0402
2237	2020 552 96718	220nF 10% 6.3V 0402	2734	2238 787 15641	22nF 5% 16V 0402	2958	3198 035 71040	100nF 10% 16V 0402
2238	2020 552 96718	220nF 10% 6.3V 0402	2734	2238 787 16641	22nF 10% 16V 0402	2959	3198 035 71040	100nF 10% 16V 0402
2239	3198 035 71040	100nF 10% 16V 0402	2735	3198 035 06810	680pF 5% 50V 0402	2960	2020 021 91557	100µF 20% 16V
2240	2020 552 96718	220nF 10% 6.3V 0402	2736	2022 031 00308	22µF 20% 35V	2A12	2020 552 96628	10nF 10% 16V 0402
2241	2020 552 96718	220nF 10% 6.3V 0402	2737	2022 031 00373	470µF 20% 16V	2A13	3198 035 71040	100nF 10% 16V 0402
2242	3198 035 71040	100nF 10% 16V 0402	2738	4822 124 80151	47µF 16V	2B01	4822 124 80151	47µF 16V
2243	4822 124 23002	10µF 16V	2739	4822 124 80151	47µF 16V	2B02	4822 124 11131	47µF 6.3V
2244	3198 035 71040	100nF 10% 16V 0402	2741	4822 126 13879	220nF +80/-20% 16V	2B03	3198 035 71040	100nF 10% 16V 0402
2245	3198 035 71040	100nF 10% 16V 0402	2751	2020 552 96305	4.7µF 20-80% 10V	2B04	3198 035 71040	100nF 10% 16V 0402
2246	3198 035 71040	100nF 10% 16V 0402	2751	2222 240 59872	4.7µF 5% 10V 0805	2B05	3198 035 71040	100nF 10% 16V 0402
2247	3198 030 82280	2.2µF 20% 50V	2752	4822 124 80151	47µF 16V	2B06	3198 035 71040	100nF 10% 16V 0402
2250	2020 552 96618	1nF 10% 50V 0402	2758	2022 031 00373	470µF 20% 16V	2B07	3198 035 71040	100nF 10% 16V 0402
2251	2020 552 96656	10µF 20% 25V 1210	2762	5322 124 41945	22µF 20% 35V	2B08	3198 035 71040	100nF 10% 16V 0402
2252	3198 035 71040	100nF 10% 16V 0402	2800	2020 021 91557	100µF 20% 16V	2B09	3198 035 71040	100nF 10% 16V 0402
2253	3198 035 71040	100nF 10% 16V 0402	2801	3198 035 71040	100nF 10% 16V 0402	2B10	3198 035 71040	100nF 10% 16V 0402
2254	3198 035 71040	100nF 10% 16V 0402	2802	3198 035 71040	100nF 10% 16V 0402	2B11	3198 035 71040	100nF 10% 16V 0402
2255	3198 035 71040	100nF 10% 16V 0402	2803	3198 035 71040	100nF 10% 16V 0402	2B12	3198 035 71040	100nF 10% 16V 0402
2256	4822 124 23002	10µF 16V	2804	3198 035 71040	100nF 10% 16V 0402	2B13	3198 035 71040	100nF 10% 16V 0402
2257	3198 035 71040	100nF 10% 16V 0402	2805	3198 035 71040	100nF 10% 16V 0402	2B14	3198 035 71040	100nF 10% 16V 0402
2258	2020 552 96637	10µF 10% 6.3V 0805	2806	3198 035 71040	100nF 10% 16V 0402	2B15	3198 035 71040	100nF 10% 16V 0402
2259	3198 035 71040	100nF 10% 16V 0402	2807	3198 035 71040	100nF 10% 16V 0402	2B16	3198 035 71040	100nF 10% 16V 0402
2260	2020 552 96637	10µF 10% 6.3V 0805	2808	3198 035 71040	100nF 10% 16V 0402	2B17	3198 035 71040	100nF 10% 16V 0402
2262	4822 124 23002	10µF 16V	2809	3198 035 71040	100nF 10% 16V 0402	2B18	5322 124 41945	22µF 20% 35V
2263	3198 035 26820	6.8nF 10% 16V 0402	2810	3198 035 71040	100nF 10% 16V 0402	2C00	3198 035 71040	100nF 10% 16V 0402
2264	2022 020 00762	0.47µF 20% 50V	2811	3198 035 71040	100nF 10% 16V 0402	2C01	4822 124 23002	10µF 16V
2264	3198 017 44740	470nF 10V 0603	2812	3198 035 71040	100nF 10% 16V 0402	2C02	3198 035 71040	100nF 10% 16V 0402
2264	3198 030 84770	0.47µF 20% 50V	2813	3198 035 71040	100nF 10% 16V 0402	2C03	3198 035 71040	100nF 10% 16V 0402
2265	3198 017 41050	1µF 10V 0603	2814	3198 035 71040	100nF 10% 16V 0402	2C04	2020 552 96628	10nF 10% 16V 0402
2265	4822 124 12084	1µF 20% 50V	2815	5322 124 41945	22µF 20% 35V	2C05	2020 552 96628	10nF 10% 16V 0402
2266	3198 035 71040	100nF 10% 16V 0402	2816	3198 035 71040	100nF 10% 16V 0402	2D00	3198 035 71040	100nF 10% 16V 0402
2267	2020 552 96718	220nF 10% 6.3V 0402	2817	3198 035 71040	100nF 10% 16V 0402	2D01	3198 035 71040	100nF 10% 16V 0402
2268	3198 030 82280	2.2µF 20% 50V	2818	3198 035 71040	100nF 10% 16V 0402	2D02	4822 124 23237	22µF 6.3V
2269	2022 031 00373	470µF 20% 16V	2819	3198 035 71040	100nF 10% 16V 0402	2D08	2020 552 96618	1nF 10% 50V 0402
2270	3198 035 71040	100nF 10% 16V 0402	2820	3198 035 71040	100nF 10% 16V 0402	2D09	2020 552 96618	1nF 10% 50V 0402
2271	4822 124 12095	100µF 20% 16V	2821	3198 035 71040	100nF 10% 16V 0402	2D10	2020 552 96618	1nF 10% 50V 0402
2272	3198 035 71040	100nF 10% 16V 0402	2822	3198 035 71040	100nF 10% 16V 0402	2D11	2020 552 96618	1nF 10% 50V 0402
2273	2020 552 96718	220nF 10% 6.3V 0402	2823	4822 126 14519	22pF 5% 50V 0402	2D12	2020 552 96618	1nF 10% 50V 0402
2274	3198 017 31540	150nF 10V 0603	2824	4822 126 14519	22pF 5% 50V 0402	2D13	2020 552 96618	1nF 10% 50V 0402
2277	3198 035 71040	100nF 10% 16V 0402	2900	3198 035 71040	100nF 10% 16V 0402	2D14	2020 552 96618	1nF 10% 50V 0402
2280	2020 552 00005	4.7µF 10% 6.3V 0603	2901	2020 552 96618	1nF 10% 50V 0402	2D15	2020 552 96618	1nF 10% 50V 0402
2280	2020 552 00027	4.7µF 2% 6.3V 0603	2902	2020 021 91557	100µF 20% 16V	2D16	2020 552 96618	1nF 10% 50V 0402
2281	2020 552 00005	4.7µF 10% 6.3V 0603	2903	3198 035 71040	100nF 10% 16V 0402	2D17	2020 552 96618	1nF 10% 50V 0402
2281	2020 552 00027	4.7µF 2% 6.3V 0603	2904	4822 124 80151	47µF 16V	2D1		

2D38	2020 552 96618	1nF 10% 50V 0402	2G43	2020 552 00027	4.7µF 2% 6.3V 0603	2L32	2020 552 96834	1µF 20% 6.3V 0402
2D39	2020 552 96618	1nF 10% 50V 0402	2G47	3198 035 71040	100nF 10% 16V 0402	2L33	3198 035 71040	100nF 10% 16V 0402
2D42	4822 124 23237	22µF 6.3V	2G54	2020 552 00183	2.2µF 10% 6.3V 0603	2L34	4822 124 12095	100µF 20% 16V
2D43	4822 124 23237	22µF 6.3V	2G55	2020 552 00005	4.7µF 10% 6.3V 0603	2L35	4822 126 14519	22pF 5% 50V 0402
2D44	4822 124 23237	22µF 6.3V	2G55	2020 552 00027	4.7µF 2% 6.3V 0603	2L36	4822 126 14519	22pF 5% 50V 0402
2D45	3198 035 71040	100nF 10% 16V 0402	2G56	2020 552 00005	4.7µF 10% 6.3V 0603	2L37	3198 035 71040	100nF 10% 16V 0402
2D46	4822 124 11131	47µF 6.3V	2G56	2020 552 00027	4.7µF 2% 6.3V 0603	2L51	3198 035 02210	220pF 5% 50V 0402
2D47	4822 124 23237	22µF 6.3V	2G57	2020 552 00005	4.7µF 10% 6.3V 0603	2L52	3198 035 04710	470pF 50V 0402
2D48	4822 124 23237	22µF 6.3V	2G57	2020 552 00027	4.7µF 2% 6.3V 0603	2L53	2020 552 96618	1nF 10% 50V 0402
2D49	2020 552 96618	1nF 10% 50V 0402	2G58	3198 035 71040	100nF 10% 16V 0402	2L61	3198 035 02210	220pF 5% 50V 0402
2D50	4822 124 11131	47µF 6.3V	2G60	2020 552 00183	2.2µF 10% 6.3V 0603	2L62	3198 035 04710	470pF 50V 0402
2D51	3198 035 71040	100nF 10% 16V 0402	2G61	3198 017 42240	220nF 16V Y5V 0603	2L63	2020 552 96618	1nF 10% 50V 0402
2D52	4822 124 11131	47µF 6.3V	2G68	4822 126 14508	180pF 5% 50V 0603	2L71	2020 552 00005	4.7µF 10% 6.3V 0603
2D53	3198 035 71040	100nF 10% 16V 0402	2G69	4822 124 23002	10µF 16V	2L72	2020 552 00027	4.7µF 2% 6.3V 0603
2D54	4822 124 11131	47µF 6.3V	2G70	2020 552 96637	10µF 10% 6.3V 0805	2L77	3198 035 71040	100nF 10% 16V 0402
2D55	3198 035 71040	100nF 10% 16V 0402	2G71	2020 552 96637	10µF 10% 6.3V 0805	2L73	2020 552 96637	10µF 10% 6.3V 0805
2D56	4822 124 23002	10µF 16V	2J02	2020 552 96618	1nF 10% 50V 0402	2L74	2020 552 00231	22µF 20%
2D57	4822 124 23002	10µF 16V	2J03	2020 552 96618	1nF 10% 50V 0402	2L75	2020 552 00231	22µF 20%
2D58	2020 552 96628	10nF 10% 16V 0402	2J17	2020 552 96618	1nF 10% 50V 0402	2L92	3198 035 74730	47nF 5% 16V 0402
2D59	2020 552 96628	10nF 10% 16V 0402	2J18	2238 869 15101	100pF 5% 50V 0402	2L93	3198 035 74730	47nF 5% 16V 0402
2E00	2020 552 00005	4.7µF 10% 6.3V 0603	2J19	2238 869 15101	100pF 5% 50V 0402	2L94	2020 552 96618	1nF 10% 50V 0402
2E00	2020 552 00027	4.7µF 2% 6.3V 0603	2J21	2238 869 15101	100pF 5% 50V 0402	2L95	3198 035 74730	47nF 5% 16V 0402
2E01	2020 552 00005	4.7µF 10% 6.3V 0603	2J22	2238 869 15101	100pF 5% 50V 0402	2L95	4822 117 13605	Jumper 0402
2E01	2020 552 00027	4.7µF 2% 6.3V 0603	2J23	2238 869 15101	100pF 5% 50V 0402	2L96	3198 035 71040	100nF 10% 16V 0402
2E02	2020 552 00005	4.7µF 10% 6.3V 0603	2J26	2238 869 15101	100pF 5% 50V 0402	2L96	3198 035 74730	47nF 5% 16V 0402
2E02	2020 552 00027	4.7µF 2% 6.3V 0603	2J27	2238 869 15101	100pF 5% 50V 0402	2L97	3198 035 74730	47nF 5% 16V 0402
2E03	3198 035 71040	100nF 10% 16V 0402	2J28	2238 869 15101	100pF 5% 50V 0402	2L98	3198 035 74730	47nF 5% 16V 0402
2E04	2020 552 00005	4.7µF 10% 6.3V 0603	2J29	2238 869 15101	100pF 5% 50V 0402	2M00	3198 035 71040	100nF 10% 16V 0402
2E04	2020 552 00027	4.7µF 2% 6.3V 0603	2J30	2020 552 96618	1nF 10% 50V 0402	2M01	3198 035 71040	100nF 10% 16V 0402
2E05	2020 552 00005	4.7µF 10% 6.3V 0603	2J31	2238 869 15101	100pF 5% 50V 0402	2M02	3198 035 71040	100nF 10% 16V 0402
2E05	2020 552 00027	4.7µF 2% 6.3V 0603	2J35	2020 552 96618	1nF 10% 50V 0402	2M03	3198 035 71040	100nF 10% 16V 0402
2E06	2020 552 00005	4.7µF 10% 6.3V 0603	2J35	2020 552 96673	1µF 10% 6.3V X5R 0603	2M04	3198 035 71040	100nF 10% 16V 0402
2E06	2020 552 00027	4.7µF 2% 6.3V 0603	2J35	2020 552 96834	1µF 20% 6.3V 0402	2M05	3198 035 71040	100nF 10% 16V 0402
2E07	4822 126 14324	33pF 5% 50V 0402	2J35	2022 552 05614	1µF 10% 6V3 0603	2M06	3198 035 71040	100nF 10% 16V 0402
2E08	2020 552 00005	4.7µF 10% 6.3V 0603	2J36	2020 552 96618	1nF 10% 50V 0402	2M07	3198 035 71040	100nF 10% 16V 0402
2E08	2020 552 00027	4.7µF 2% 6.3V 0603	2K00	2020 552 96618	1nF 10% 50V 0402	2M08	3198 035 71040	100nF 10% 16V 0402
2E09	4822 126 14324	33pF 5% 50V 0402	2K01	2020 552 96618	1nF 10% 50V 0402	2M09	3198 035 71040	100nF 10% 16V 0402
2E10	2020 552 00005	4.7µF 10% 6.3V 0603	2K02	2238 869 15109	10pF 5% 50V 0402	2M10	3198 035 71040	100nF 10% 16V 0402
2E10	2020 552 00027	4.7µF 2% 6.3V 0603	2K03	2238 869 15109	10pF 5% 50V 0402	2M11	3198 035 71040	100nF 10% 16V 0402
2E11	4822 126 14324	33pF 5% 50V 0402	2K04	2238 869 15109	10pF 5% 50V 0402	2M12	3198 035 71040	100nF 10% 16V 0402
2E12	2020 552 00005	4.7µF 10% 6.3V 0603	2K05	2238 869 15109	10pF 5% 50V 0402	2M13	3198 035 71040	100nF 10% 16V 0402
2E12	2020 552 00027	4.7µF 2% 6.3V 0603	2K06	2238 869 15101	100pF 5% 50V 0402	2M14	3198 035 71040	100nF 10% 16V 0402
2E13	3198 017 41050	1µF 10V 0603	2K07	2238 869 15101	100pF 5% 50V 0402	2M15	3198 035 71040	100nF 10% 16V 0402
2E14	4822 126 14324	33pF 5% 50V 0402	2K08	2020 552 00183	2.2µF 10% 6.3V 0603	2M16	3198 035 71040	100nF 10% 16V 0402
2E16	3198 035 71040	100nF 10% 16V 0402	2K10	2238 869 15101	100pF 5% 50V 0402	2M17	3198 035 71040	100nF 10% 16V 0402
2E17	3198 035 71040	100nF 10% 16V 0402	2K11	2238 869 15101	100pF 5% 50V 0402	2M18	3198 035 71040	100nF 10% 16V 0402
2E18	3198 035 71040	100nF 10% 16V 0402	2K12	2020 552 00183	2.2µF 10% 6.3V 0603	2M19	3198 035 71040	100nF 10% 16V 0402
2E19	3198 035 71040	100nF 10% 16V 0402	2K13	2238 869 15101	100pF 5% 50V 0402	2M20	3198 035 71040	100nF 10% 16V 0402
2E20	4822 124 11131	47µF 6.3V	2K14	2238 869 15101	100pF 5% 50V 0402	2M21	2020 552 00183	2.2µF 10% 6.3V 0603
2E24	3198 035 71040	100nF 10% 16V 0402	2K15	2238 869 15101	100pF 5% 50V 0402	2M22	3198 035 71040	100nF 10% 16V 0402
2E25	3198 035 71040	100nF 10% 16V 0402	2K16	2238 869 15101	100pF 5% 50V 0402	2M23	5322 124 41945	22µF 20% 35V
2E26	3198 035 71040	100nF 10% 16V 0402	2K17	2238 869 15101	100pF 5% 50V 0402	2M24	3198 035 71040	100nF 10% 16V 0402
2E27	3198 035 71040	100nF 10% 16V 0402	2K18	2238 869 15101	100pF 5% 50V 0402	2M25	3198 035 71040	100nF 10% 16V 0402
2E28	3198 035 71040	100nF 10% 16V 0402	2K19	2020 552 96618	1nF 10% 50V 0402	2M26	3198 035 71040	100nF 10% 16V 0402
2E29	3198 035 71040	100nF 10% 16V 0402	2K20	2020 552 96618	1nF 10% 50V 0402	2M27	3198 035 71040	100nF 10% 16V 0402
2E30	3198 035 71040	100nF 10% 16V 0402	2K21	2238 869 15101	100pF 5% 50V 0402	2M28	3198 035 71040	100nF 10% 16V 0402
2E31	3198 035 71040	100nF 10% 16V 0402	2K22	2238 869 15101	100pF 5% 50V 0402	2M29	3198 035 71040	100nF 10% 16V 0402
2E32	3198 035 71040	100nF 10% 16V 0402	2K23	2238 869 15101	100pF 5% 50V 0402	2M30	3198 035 71040	100nF 10% 16V 0402
2E33	2020 552 00005	4.7µF 10% 6.3V 0603	2K24	2238 869 15101	100pF 5% 50V 0402	2M31	5322 124 41945	22µF 20% 35V
2E33	2020 552 00027	4.7µF 2% 6.3V 0603	2K25	2238 869 15101	100pF 5% 50V 0402	2M32	5322 124 41945	22µF 20% 35V
2E34	2020 552 00005	4.7µF 10% 6.3V 0603	2K26	2238 869 15101	100pF 5% 50V 0402	2M56	5322 124 41945	22µF 20% 35V
2E34	2020 552 00027	4.7µF 2% 6.3V 0603	2K27	2238 869 15101	100pF 5% 50V 0402	2M65	3198 035 71040	100nF 10% 16V 0402
2E35	2020 552 00005	4.7µF 10% 6.3V 0603	2K28	2238 869 15101	100pF 5% 50V 0402	2M66	4822 124 12095	100µF 20% 16V
2E35	2020 552 00027	4.7µF 2% 6.3V 0603	2L01	4822 124 23002	10µF 16V	2M67	3198 035 71040	100nF 10% 16V 0402
2E36	3198 035 71040	100nF 10% 16V 0402	2L02	4822 124 23002	10µF 16V	2M68	4822 124 12095	100µF 20% 16V
2E37	2020 552 96703	180pF 5% 50V 0402	2L03	2020 552 96834	1µF 20% 6.3V 0402	2N01	3198 035 71040	100nF 10% 16V 0402
2F01	4822 124 23002	10µF 16V	2L04	2020 552 96834	1µF 20% 6.3V 0402	2N02	3198 035 71040	100nF 10% 16V 0402
2F02	2238 586 59812	100nF 20% 50V 0603	2L05	2020 552 96834	1µF 20% 6.3V 0402	2N03	3198 035 71040	100nF 10% 16V 0402
2F03	2020 552 00005	4.7µF 10% 6.3V 0603	2L06	2020 552 96834	1µF 20% 6.3V 0402	2N04	3198 035 71040	100nF 10% 16V 0402
2F03	2020 552 00027	4.7µF 2% 6.3V 0603	2L07	2020 552 96834	1µF 20% 6.3V 0402	2N05	3198 035 71040	100nF 10% 16V 0402
2F04	2020 552 00005	4.7µF 10% 6.3V 0603	2L08	2020 552 96834	1µF 20% 6.3V 0402	2N06	3198 035 71040	100nF 10% 16V 0402
2F04	2020 552 00027	4.7µF 2% 6.3V 0603	2L09	2020 552 96834	1µF 20% 6.3V 0402	2N07	3198 035 71040	100nF 10% 16V 0402
2F13	4822 126 14508	180pF 5% 50V 0603	2L10	2020 552 96668	560P 10% 50V	2N08	3198 035 71040	100nF 10% 16V 0402
2F14	4822 126 14508	180pF 5% 50V 0603	2L11	4822 124 23002	10µF 16V	2N09	3198 035 71040	100nF 10% 16V 0402
2F15	2020 552 00183	2.2µF 10% 6.3V 0603	2L12	2020 552 96834	1µF 20% 6.3V 0402	2N10	3198 035 71040	100nF 10% 16V 0402
2F16	2020 552 00183	2.2µF 10% 6.3V 0603	2L13	2020 552 96834	1µF 20% 6.3V 0402	2N11	3198 035 71040	100nF 10% 16V 0402
2G03	4822 126 14241	330pF 0603 50V	2L14	2020 552 96834	1µF 20% 6.3V 0402	2N12	3198 035 71040	100nF 10% 16V 0402
2G04	4822 126 14241	330pF 0603 50V	2L15	2020 552 96834	1µF 20% 6.3V 0402	2N13	3198 035 71040	100nF 10% 16V 0402
2G05	4822 124 23002	10µF 16V	2L16	2020 552 96834	1µF 20% 6.3V 0402	2N14	3198 035 71040	100nF 10% 16V 0402
2G06	4822 124 23002	10µF 16V	2L17	2020 552 96637	10µF 10% 6.3V 0805	2N1		



2N31	3198 035 71040	100nF 10% 16V 0402	3235	3198 031 04720	4.7kΩ 5% 0402	3732	2322 704 61002	1kΩ 1%
2N32	3198 035 71040	100nF 10% 16V 0402	3236	3198 031 04720	4.7kΩ 5% 0402	3733	2322 704 63302	3.3kΩ 1% 0603
2N33	3198 035 71040	100nF 10% 16V 0402	3238	4822 117 13545	100Ω 1% 0402	3734	4822 117 13545	100Ω 1% 0402
2N35	3198 035 71040	100nF 10% 16V 0402	3239	4822 117 13545	100Ω 1% 0402	3735	4822 117 13548	1kΩ 5% 0402
2N36	3198 035 71040	100nF 10% 16V 0402	3240	2322 704 61002	1kΩ 1%	3736	3198 031 04720	4.7kΩ 5% 0402
2N37	3198 035 71040	100nF 10% 16V 0402	3241	4822 117 13545	100Ω 1% 0402	3740	3198 031 01520	1.2kΩ 5% 0.01W 0402
2N38	3198 035 71040	100nF 10% 16V 0402	3242	4822 117 13606	10kΩ 5% 0.01W 0402	3741	3198 031 01520	1.2kΩ 5% 0.01W 0402
2N39	3198 035 71040	100nF 10% 16V 0402	3243	3198 031 04720	4.7kΩ 5% 0402	3742	3198 031 01530	15kΩ 5% 0.01W 0402
2N40	3198 035 71040	100nF 10% 16V 0402	3245	3198 031 02240	220kΩ 5% 0.1W 0402	3743	4822 117 13601	22kΩ 5% 0402
2N41	3198 035 71040	100nF 10% 16V 0402	3246	3198 031 04720	4.7kΩ 5% 0402	3750	4822 117 13601	22kΩ 5% 0402
2N42	3198 035 71040	100nF 10% 16V 0402	3247	4822 117 13545	100Ω 1% 0402	3755	4822 117 13606	10kΩ 5% 0.01W 0402
2N43	3198 035 71040	100nF 10% 16V 0402	3248	4822 117 13545	100Ω 1% 0402	3758	3198 031 01530	15kΩ 5% 0.01W 0402
2N44	3198 035 71040	100nF 10% 16V 0402	3249	3198 031 04720	4.7kΩ 5% 0402	3759	3198 031 01230	12kΩ 5% 0402
2N45	3198 035 71040	100nF 10% 16V 0402	3250	4822 117 13545	100Ω 1% 0402	3800	4822 117 13606	10kΩ 5% 0.01W 0402
2N46	3198 035 71040	100nF 10% 16V 0402	3251	4822 117 13545	100Ω 1% 0402	3801	2350 035 10229	4 x 22Ω 5% 1206
2N47	3198 035 71040	100nF 10% 16V 0402	3252	4822 117 13545	100Ω 1% 0402	3802	2350 035 10229	4 x 22Ω 5% 1206
2N48	3198 035 71040	100nF 10% 16V 0402	3253	4822 117 13545	100Ω 1% 0402	3803	2350 035 10229	4 x 22Ω 5% 1206
2N49	3198 035 71040	100nF 10% 16V 0402	3255	4822 117 13605	Jumper 0402	3804	2350 035 10229	4 x 22Ω 5% 1206
2N50	3198 035 71040	100nF 10% 16V 0402	3256	4822 117 13605	Jumper 0402	3805	2350 035 10229	4 x 22Ω 5% 1206
2N51	4822 124 11131	47μF 6.3V	3257	4822 117 13605	Jumper 0402	3806	2350 035 10229	4 x 22Ω 5% 1206
2N54	3198 030 74780	4u7 20% 35V	3258	4822 117 13548	1kΩ 5% 0402	3807	2350 035 10229	4 x 22Ω 5% 1206
2N55	3198 035 71040	100nF 10% 16V 0402	3259	4822 117 13548	1kΩ 5% 0402	3808	2350 035 10229	4 x 22Ω 5% 1206
2N56	3198 035 71040	100nF 10% 16V 0402	3260	4822 117 13548	1kΩ 5% 0402	3809	2350 035 10229	4 x 22Ω 5% 1206
2N57	3198 035 71040	100nF 10% 16V 0402	3262	4822 117 13601	22kΩ 5% 0402	3810	2350 035 10229	4 x 22Ω 5% 1206
2N58	3198 035 71040	100nF 10% 16V 0402	3263	2322 702 70398	3.9Ω 5% 0603	3811	2350 035 10229	4 x 22Ω 5% 1206
2N59	3198 035 71040	100nF 10% 16V 0402	3264	4822 117 13601	22kΩ 5% 0402	3812	2350 035 10229	4 x 22Ω 5% 1206
2N60	3198 035 71040	100nF 10% 16V 0402	3265	2322 702 70398	3.9Ω 5% 0603	3813	2350 035 10229	4 x 22Ω 5% 1206
2N61	3198 035 71040	100nF 10% 16V 0402	3266	3198 031 05620	5.6kΩ 5% 0.01W 0402	3814	3198 031 02290	22Ω 5% 0.1W 0402
2N62	3198 035 71040	100nF 10% 16V 0402	3267	3198 031 05620	5.6kΩ 5% 0.01W 0402	3815	3198 031 02290	22Ω 5% 0.1W 0402
2N63	3198 035 71040	100nF 10% 16V 0402	3268	4822 117 13545	100Ω 1% 0402	3816	3198 031 02290	22Ω 5% 0.1W 0402
2N64	3198 035 71040	100nF 10% 16V 0402	3272	3198 031 04720	4.7kΩ 5% 0402	3817	4822 117 13606	10kΩ 5% 0.01W 0402
2N65	3198 035 71040	100nF 10% 16V 0402	3273	4822 117 13548	1kΩ 5% 0402	3818	4822 117 13606	10kΩ 5% 0.01W 0402
2N66	3198 035 71040	100nF 10% 16V 0402	3274	3198 031 03910	390Ω 1% 0402	3820	4822 117 13606	10kΩ 5% 0.01W 0402
2N67	3198 035 71040	100nF 10% 16V 0402	3275	4822 117 13545	100Ω 1% 0402	3822	4822 117 13545	100Ω 1% 0402
2N68	4822 124 12095	100μF 20% 16V	3276	3198 031 07590	75Ω 5% 0402	3824	3198 031 03320	3.3kΩ 5% 0402
2N69	2238 869 15101	100pF 5% 50V 0402	3277	3198 031 01520	1.2kΩ 5% 0.01W 0402	3825	3198 031 11030	4 x 10kΩ 5% 1206
2N75	3198 035 71040	100nF 10% 16V 0402	3280	4822 117 11151	1Ω 5%	3826	3198 031 11030	4 x 10kΩ 5% 1206
2N76	2020 552 00005	4.7μF 10% 6.3V 0603	3281	3198 031 03930	39kΩ 5% 0402	3827	4822 117 13606	10kΩ 5% 0.01W 0402
2N80	2238 869 15109	10pF 5% 50V 0402	3282	4822 051 30151	150Ω 5% 0.062W	3828	4822 117 13606	10kΩ 5% 0.01W 0402
2N81	2238 869 15109	10pF 5% 50V 0402	3285	4822 117 13605	Jumper 0402	3829	4822 117 13606	10kΩ 5% 0.01W 0402
2N82	2238 869 15109	10pF 5% 50V 0402	3286	4822 117 13545	100Ω 1% 0402	3831	4822 117 13545	100Ω 1% 0402
2N83	2238 869 15109	10pF 5% 50V 0402	3292	3198 031 01230	12kΩ 5% 0402	3832	4822 117 13545	100Ω 1% 0402
2N84	2238 869 15109	10pF 5% 50V 0402	3292	3198 031 02730	27kΩ 5% 0402	3833	3198 031 01090	10Ω 5% 0.01W 0402
2N85	2238 869 15109	10pF 5% 50V 0402	3294	3198 031 04730	47Ω 5% 0402	3834	4822 117 13606	10kΩ 5% 0.01W 0402
2N86	2238 869 15109	10pF 5% 50V 0402	3295	4822 117 11297	100kΩ 5% 0.1W	3835	4822 117 13606	10kΩ 5% 0.01W 0402
2N87	2238 869 15109	10pF 5% 50V 0402	3297	3198 031 03320	3.3kΩ 5% 0402	3836	4822 117 13606	10kΩ 5% 0.01W 0402
2N88	2238 869 15109	10pF 5% 50V 0402	3298	3198 031 03320	3.3kΩ 5% 0402	3837	4822 117 13606	10kΩ 5% 0.01W 0402
2N89	2238 869 15109	10pF 5% 50V 0402	3299	3198 031 04720	4.7kΩ 5% 0402	3838	4822 117 13606	10kΩ 5% 0.01W 0402
-WW-			3431	4822 117 13548	1kΩ 5% 0402	3839	4822 117 13545	100Ω 1% 0402
3151	4822 117 13545	100Ω 1% 0402	3451	3198 031 04720	4.7kΩ 5% 0402	3840	3198 031 02290	22Ω 5% 0.1W 0402
3152	4822 117 13545	100Ω 1% 0402	3453	4822 117 13545	100Ω 1% 0402	3841	4822 117 13606	10kΩ 5% 0.01W 0402
3153	4822 117 13606	10kΩ 5% 0.01W 0402	3454	4822 117 13545	100Ω 1% 0402	3842	4822 117 13606	10kΩ 5% 0.01W 0402
3154	4822 051 30103	10kΩ 5% 0.062W	3455	4822 117 13545	100Ω 1% 0402	3900	3198 031 03320	3.3kΩ 5% 0402
3155	4822 117 13548	1kΩ 5% 0402	3456	4822 117 13545	100Ω 1% 0402	3901	4822 117 13606	10kΩ 5% 0.01W 0402
3157	4822 051 30682	6.8Ω 5% 0.062W	3458	4822 117 13545	100Ω 1% 0402	3902	4822 117 13606	10kΩ 5% 0.01W 0402
3158	4822 051 30222	2.2kΩ 5% 0.062W	3459	4822 117 13545	100Ω 1% 0402	3903	4822 117 13545	100Ω 1% 0402
3159	4822 051 30222	2.2kΩ 5% 0.062W	3461	4822 117 13545	100Ω 1% 0402	3904	4822 117 13545	100Ω 1% 0402
3161	4822 051 30223	22kΩ 5% 0.062W	3462	4822 117 13545	100Ω 1% 0402	3A02	4822 117 13548	1kΩ 5% 0402
3162	4822 051 30183	18kΩ 5% 0.062W	3604	4822 117 13601	22kΩ 5% 0402	3A10	4822 117 13606	10kΩ 5% 0.01W 0402
3163	4822 051 30101	100Ω 5% 0.062W	3605	4822 117 13601	22kΩ 5% 0402	3A11	4822 117 13606	10kΩ 5% 0.01W 0402
3164	4822 051 30101	100Ω 5% 0.062W	3609	4822 117 13601	22kΩ 5% 0402	3A13	4822 117 13606	10kΩ 5% 0.01W 0402
3170	4822 117 13606	10kΩ 5% 0.01W 0402	3610	4822 117 11297	100kΩ 5% 0.1W	3A14	3198 031 04720	4.7kΩ 5% 0402
3171	4822 117 13606	10kΩ 5% 0.01W 0402	3611	4822 117 11297	100kΩ 5% 0.1W	3B01	4822 117 12706	10kΩ 1% 0.063W 0603
3172	4822 117 13545	100Ω 1% 0402	3612	4822 117 13601	22kΩ 5% 0402	3B02	4822 117 12706	10kΩ 1% 0.063W 0603
3173	4822 117 13545	100Ω 1% 0402	3615	4822 117 13606	10kΩ 5% 0.01W 0402	3B03	2322 704 61501	150Ω 1% 0603
3207	3198 031 06810	680Ω 5% 0.01W 0402	3616	4822 117 13548	1kΩ 5% 0402	3C00	4822 117 13606	10kΩ 5% 0.01W 0402
3208	4822 117 13545	100Ω 1% 0402	3617	4822 117 13548	1kΩ 5% 0402	3C01	4822 117 13606	10kΩ 5% 0.01W 0402
3209	4822 117 13545	100Ω 1% 0402	3618	4822 117 13601	22kΩ 5% 0402	3C02	4822 117 13548	1kΩ 5% 0402
3210	4822 117 13545	100Ω 1% 0402	3619	4822 117 13606	10kΩ 5% 0.01W 0402	3C04	3198 031 11030	4 x 10kΩ 5% 1206
3211	4822 117 13545	100Ω 1% 0402	3620	4822 117 13606	10kΩ 5% 0.01W 0402	3C05	4822 117 13606	10kΩ 5% 0.01W 0402
3212	4822 117 13545	100Ω 1% 0402	3623	3198 031 04730	47Ω 5% 0402	3C06	3198 031 11030	4 x 10kΩ 5% 1206
3213	4822 117 13545	100Ω 1% 0402	3625	3198 031 03320	3.3kΩ 5% 0402	3C07	3198 031 11030	4 x 10kΩ 5% 1206
3214	3198 031 06810	680Ω 5% 0.01W 0402	3627	4822 117 13601	22kΩ 5% 0402	3C08	3198 031 11030	4 x 10kΩ 5% 1206
3215	3198 031 02710	270Ω 5% 0.1W 0402	3628	4822 117 13606	10kΩ 5% 0.01W 0402	3C09	3198 031 11030	4 x 10kΩ 5% 1206
3216	4822 117 13597	330Ω 5% 0.01W 0402	3629	4822 117 13601	22kΩ 5% 0402	3C10	3198 031 11030	4 x 10kΩ 5% 1206
3217	4822 117 13548	1kΩ 5% 0402	3630	4822 117 13597	330Ω 5% 0.01W 0402	3C16	3198 031 11030	4 x 10kΩ 5% 1206
3218	4822 117 11297	100kΩ 5% 0.1W	3630	4822 117 13602	2.2kΩ 5% 0.01W 0402	3C17	4822 117 13606	10kΩ 5% 0.01W 0402
3219	4822 117 13545	100Ω 1% 0402	3631	4822 117 13602	2.2kΩ 5% 0.01W 0402	3C18	4822 117 13606	10kΩ 5% 0.01W 0402
3220	3198 031 04730	47Ω 5% 0402	3632	2322 705 70569	56Ω 5% 0402	3C22	4822 117 13548	1kΩ 5% 0402
3222	4822 117 13545	100Ω 1% 0402	3633	2322 705 70569	56Ω 5% 0402	3C23	3198 031 02240	220kΩ 5% 0.1W 0402
3223	3198 031 01090	10Ω 5% 0.01W 0402	3701	4822 117 13606	10kΩ 5% 0.01W 0402	3D00	3198 031 04720	4.7kΩ 5% 0402
3224	3198 031 04720	4.7kΩ 5% 0402	3702	4822 117 13606	10kΩ 5% 0.01W 0402	3D01	3198 031 04720	4.7kΩ 5% 0402
3225	3198 031 04720	4.7kΩ 5% 0402	3709	3198 031 06820	6.8kΩ 5% 0.01W 0402	3D02	3198 031	

3D10	3198 031 04720	4.7kΩ 5% 0402	3G02	4822 117 12891	220kΩ 1%	3L63	4822 117 13545	100Ω 1% 0402
3D10	3198 031 04730	47Ω 5% 0402	3G03	4822 117 12891	220kΩ 1%	3L64	4822 117 13548	1kΩ 5% 0402
3D11	3198 031 05620	5.6kΩ 5% 0.01W 0402	3G04	4822 051 30103	10kΩ 5% 0.062W	3L65	4822 117 13545	100Ω 1% 0402
3D15	3198 031 13390	4 x 33Ω 5% 1206	3G05	4822 051 30103	10kΩ 5% 0.062W	3L67	4822 117 13605	Jumper 0402
3D16	3198 031 13390	4 x 33Ω 5% 1206	3G06	4822 051 30101	100Ω 5% 0.062W	3L68	4822 117 13605	Jumper 0402
3D17	3198 031 13390	4 x 33Ω 5% 1206	3G07	4822 051 30101	100Ω 5% 0.062W	3L71	4822 117 13597	330Ω 5% 0.01W 0402
3D18	3198 021 31080	1Ω 5% 0603	3G08	4822 051 30101	100Ω 5% 0.062W	3L73	4822 117 13545	100Ω 1% 0402
3D19	3198 021 31080	1Ω 5% 0603	3G09	2122 118 06408	91Ω 5% 0603	3L75	4822 051 30153	15kΩ 5% 0.062W
3D20	3198 031 13390	4 x 33Ω 5% 1206	3G10	2122 118 06408	91Ω 5% 0603	3L76	4822 051 30153	15kΩ 5% 0.062W
3D21	3198 031 13390	4 x 33Ω 5% 1206	3G11	3198 031 06820	6.8kΩ 5% 0.01W 0402	3L92	3198 031 03390	33Ω 1% 0402
3D22	3198 031 03390	33Ω 1% 0402	3G12	4822 051 30759	75Ω 5% 0.062W	3L93	3198 031 06890	68Ω 5% 0402
3D23	3198 031 03390	33Ω 1% 0402	3G12	9965 000 34407	47UF 16V	3L94	3198 031 03910	390Ω 1% 0402
3D24	4822 117 13596	220Ω 5% 0.01W 0402	3G13	4822 051 30331	330Ω 5% 0.062W	3L95	3198 031 03390	33Ω 1% 0402
3D26	4822 117 13596	220Ω 5% 0.01W 0402	3G14	4822 051 30102	1kΩ 5% 0.062W	3L95	4822 117 13605	Jumper 0402
3D27	3198 031 03320	3.3kΩ 5% 0402	3G15	4822 051 30102	1kΩ 5% 0.062W	3L96	3198 031 06890	68Ω 5% 0402
3E06	3198 031 04730	47Ω 5% 0402	3G16	4822 051 30759	75Ω 5% 0.062W	3L96	4822 117 13605	Jumper 0402
3E07	3198 031 04730	47Ω 5% 0402	3G16	9965 000 34407	47UF 16V	3L97	3198 031 03390	33Ω 1% 0402
3E08	3198 031 04730	47Ω 5% 0402	3G17	4822 051 30101	100Ω 5% 0.062W	3L98	3198 031 06890	68Ω 5% 0402
3E09	3198 031 04730	47Ω 5% 0402	3G18	4822 051 30103	10kΩ 5% 0.062W	3L99	3198 031 03910	390Ω 1% 0402
3E10	3198 031 04730	47Ω 5% 0402	3G19	4822 051 30103	10kΩ 5% 0.062W	3M01	2350 035 10689	4 x 68Ω 5%
3E11	3198 031 04730	47Ω 5% 0402	3G20	4822 051 30153	15kΩ 5% 0.062W	3M02	2350 035 10689	4 x 68Ω 5%
3E12	4822 117 13606	10kΩ 5% 0.01W 0402	3G21	4822 051 30153	15kΩ 5% 0.062W	3M03	2350 035 10689	4 x 68Ω 5%
3E13	4822 117 13597	330Ω 5% 0.01W 0402	3G22	4822 051 30151	150Ω 5% 0.062W	3M04	2350 035 10689	4 x 68Ω 5%
3E13	4822 117 13605	Jumper 0402	3G23	4822 051 30151	150Ω 5% 0.062W	3M06	2350 035 10229	4 x 22Ω 5% 1206
3E14	4822 117 13597	330Ω 5% 0.01W 0402	3G24	4822 117 12891	220kΩ 1%	3M07	2350 035 10229	4 x 22Ω 5% 1206
3E14	4822 117 13605	Jumper 0402	3G25	4822 117 12891	220kΩ 1%	3M08	2350 035 10229	4 x 22Ω 5% 1206
3E15	4822 117 13597	330Ω 5% 0.01W 0402	3G26	4822 051 30103	10kΩ 5% 0.062W	3M09	2350 035 10229	4 x 22Ω 5% 1206
3E15	4822 117 13605	Jumper 0402	3G27	4822 051 30103	10kΩ 5% 0.062W	3M11	3198 031 04720	4.7kΩ 5% 0402
3E16	4822 117 13597	330Ω 5% 0.01W 0402	3G28	4822 051 30759	75Ω 5% 0.062W	3M13	3198 031 04720	4.7kΩ 5% 0402
3E17	4822 117 13597	330Ω 5% 0.01W 0402	3G28	9965 000 34407	47UF 16V	3M14	4822 117 13545	100Ω 1% 0402
3E18	4822 117 13597	330Ω 5% 0.01W 0402	3G29	4822 051 30102	1kΩ 5% 0.062W	3M15	4822 117 13545	100Ω 1% 0402
3E19	2322 705 70569	56Ω 5% 0402	3G30	4822 051 30689	68Ω 5% 0.063W 0603	3M16	3198 031 04720	4.7kΩ 5% 0402
3E20	2322 705 70569	56Ω 5% 0402	3G33	4822 051 30102	1kΩ 5% 0.062W	3M50	4822 117 13606	10kΩ 5% 0.01W 0402
3E21	2322 705 70569	56Ω 5% 0402	3G34	4822 051 30101	100Ω 5% 0.062W	3M51	4822 117 13606	10kΩ 5% 0.01W 0402
3E22	4822 117 13632	100kΩ 1% 0603 0.62W	3G36	3198 031 04730	47Ω 5% 0402	3M52	4822 117 13606	10kΩ 5% 0.01W 0402
3E23	3198 031 08210	820Ω 5% 0.5W	3G37	3198 031 04730	47Ω 5% 0402	3M53	4822 117 13546	47Ω 5% 0402
3E24	4822 117 13543	470Ω 5% 0402	3G38	4822 051 30151	150Ω 5% 0.062W	3M54	4822 117 13546	47Ω 5% 0402
3E24	4822 117 13597	330Ω 5% 0.01W 0402	3G39	4822 051 30273	27kΩ 5% 0.062W	3M55	4822 117 13546	47Ω 5% 0402
3E25	2322 705 70399	39Ω 5% 0402	3G57	3198 031 02730	27kΩ 5% 0402	3M56	4822 117 13606	10kΩ 5% 0.01W 0402
3E26	3198 031 02290	22Ω 5% 0.1W 0402	3G58	4822 051 30689	68Ω 5% 0.063W 0603	3M57	4822 117 13546	47Ω 5% 0402
3E27	2322 705 70399	39Ω 5% 0402	3G59	2122 118 06408	91Ω 5% 0603	3M58	4822 117 13606	10kΩ 5% 0.01W 0402
3E28	3198 031 02290	22Ω 5% 0.1W 0402	3G72	4822 051 30759	75Ω 5% 0.062W	3M59	4822 117 13546	47Ω 5% 0402
3E29	2322 705 70399	39Ω 5% 0402	3G72	9965 000 34407	47UF 16V	3M78	4822 117 13548	1kΩ 5% 0402
3E30	3198 031 02290	22Ω 5% 0.1W 0402	3G73	4822 051 30759	75Ω 5% 0.062W	3M79	3198 031 03320	3.3kΩ 5% 0402
3E31	4822 117 13545	100Ω 1% 0402	3G73	9965 000 34407	47UF 16V	3M87	4822 117 13605	Jumper 0402
3E33	4822 117 13545	100Ω 1% 0402	3G74	4822 051 30759	75Ω 5% 0.062W	3M89	3198 031 02290	22Ω 5% 0.1W 0402
3E35	4822 117 13545	100Ω 1% 0402	3G74	9965 000 34407	47UF 16V	3M90	3198 031 02290	22Ω 5% 0.1W 0402
3E36	4822 117 13545	100Ω 1% 0402	3G75	4822 051 30759	75Ω 5% 0.062W	3N01	4822 117 13545	100Ω 1% 0402
3E37	3198 031 02290	22Ω 5% 0.1W 0402	3G75	9965 000 34407	47UF 16V	3N02	4822 117 13545	100Ω 1% 0402
3E38	4822 117 13545	100Ω 1% 0402	3G76	4822 117 13545	100Ω 1% 0402	3N03	4822 117 13545	100Ω 1% 0402
3E39	4822 117 13545	100Ω 1% 0402	3G77	3198 031 04730	47Ω 5% 0402	3N04	4822 117 13545	100Ω 1% 0402
3E41	4822 117 13545	100Ω 1% 0402	3G78	3198 031 04730	47Ω 5% 0402	3N05	4822 117 13545	100Ω 1% 0402
3E42	4822 117 13545	100Ω 1% 0402	3G79	3198 031 06820	6.8kΩ 5% 0.01W 0402	3N10	3198 031 01050	1MΩ 5% 0402
3E43	4822 117 13545	100Ω 1% 0402	3G96	3198 031 04730	47Ω 5% 0402	3N11	4822 117 13546	47Ω 5% 0402
3E44	4822 117 13545	100Ω 1% 0402	3G99	3198 031 04730	47Ω 5% 0402	3N12	3198 031 04720	4.7kΩ 5% 0402
3E45	4822 117 13545	100Ω 1% 0402	3J03	3198 031 06890	68Ω 5% 0402	3N14	3198 031 04720	4.7kΩ 5% 0402
3E46	3198 031 01090	10Ω 5% 0.01W 0402	3J04	3198 031 06890	68Ω 5% 0402	3N15	3198 031 04720	4.7kΩ 5% 0402
3E49	3198 031 02290	22Ω 5% 0.1W 0402	3J05	3198 031 06890	68Ω 5% 0402	3N16	3198 031 04720	4.7kΩ 5% 0402
3E50	3198 031 04730	47Ω 5% 0402	3J07	3198 031 01220	1.2kΩ 5% 0.01W 0402	3N17	3198 031 04720	4.7kΩ 5% 0402
3E51	3198 031 04730	47Ω 5% 0402	3K00	4822 117 13545	100Ω 1% 0402	3N19	4822 117 13543	470Ω 5% 0402
3E52	3198 031 04730	47Ω 5% 0402	3K01	4822 117 13545	100Ω 1% 0402	3N20	4822 117 13545	100Ω 1% 0402
3E53	3198 031 04730	47Ω 5% 0402	3K02	4822 117 13606	10kΩ 5% 0.01W 0402	3N21	4822 117 13545	100Ω 1% 0402
3E54	3198 031 04730	47Ω 5% 0402	3K03	3198 031 01530	15kΩ 5% 0.01W 0402	3N22	3198 031 04720	4.7kΩ 5% 0402
3E55	3198 031 04730	47Ω 5% 0402	3K05	4822 117 13606	10kΩ 5% 0.01W 0402	3N23	3198 031 04720	4.7kΩ 5% 0402
3E57	3198 031 01090	10Ω 5% 0.01W 0402	3K06	3198 031 01530	15kΩ 5% 0.01W 0402	3N26	3198 031 04720	4.7kΩ 5% 0402
3F01	4822 051 30102	1kΩ 5% 0.062W	3K07	2322 705 70399	39Ω 5% 0402	3N27	3198 031 04720	4.7kΩ 5% 0402
3F02	4822 051 30222	2.2kΩ 5% 0.062W	3K08	3198 031 06890	68Ω 5% 0402	3N28	3198 031 04720	4.7kΩ 5% 0402
3F03	4822 051 30102	1kΩ 5% 0.062W	3K09	2322 705 70399	39Ω 5% 0402	3N29	4822 117 13545	100Ω 1% 0402
3F04	4822 051 30222	2.2kΩ 5% 0.062W	3K11	3198 031 06890	68Ω 5% 0402	3N71	3198 031 04720	4.7kΩ 5% 0402
3F05	4822 117 13603	33kΩ 5% 0402	3K12	3198 031 06890	68Ω 5% 0402	3N72	3198 031 04720	4.7kΩ 5% 0402
3F06	4822 117 13603	33kΩ 5% 0402	3K13	3198 031 06890	68Ω 5% 0402	3N73	3198 031 04720	4.7kΩ 5% 0402
3F07	4822 117 13603	33kΩ 5% 0402	3L01	2350 033 11229	4x 22Ω 5% Netw.	3N80	4822 117 13545	100Ω 1% 0402
3F08	4822 117 13603	33kΩ 5% 0402	3L02	2350 033 11229	4x 22Ω 5% Netw.	3N80	4822 117 13605	Jumper 0402
3F09	4822 117 13603	33kΩ 5% 0402	3L05	2350 033 11229	4x 22Ω 5% Netw.	3N81	4822 117 13545	100Ω 1% 0402
3F10	4822 117 13603	33kΩ 5% 0402	3L06	2350 033 11229	4x 22Ω 5% Netw.	3N81	4822 117 13605	Jumper 0402
3F11	4822 117 13603	33kΩ 5% 0402	3L07	3198 031 02290	22Ω 5% 0.1W 0402	3S00	3198 031 04730	47Ω 5% 0402
3F12	4822 117 13603	33kΩ 5% 0402	3L09	3198 021 32290	22Ω 5% 0603	3S03	3198 031 04730	47Ω 5% 0402
3F13	4822 117 13603	33kΩ 5% 0402	3L10	3198 021 32290	22Ω 5% 0603	4211	4822 117 13605	Jumper 0402
3F14	4822 117 13603	33kΩ 5% 0402	3L12	4822 117 13606	10kΩ 5% 0.01W 0402	4212	4822 117 13605	Jumper 0402
3F15	4822 117 13603	33kΩ 5% 0402	3L13	3198 031 03910	390Ω 1% 0402	4218	4822 117 13605	Jumper 0402
3F16	4822 117 13603	33kΩ 5% 0402	3L18	3198 031 01510	150Ω 5% 0.01W 0402	4219	4822 117 13605	Jumper 0402
3F17	4822 117 13603	33kΩ 5% 0402	3L19	3198 031 01510	150Ω 5% 0.01W 0402	4440	4822 117 13605	Jumper 0402
3F18	4822 117 13603	33kΩ 5% 0402	3L38	4822 051 30222	2.2kΩ 5% 0.062W	4441	4822 117 13605	Jumper 0402
3F19	4822 117 13603	33kΩ 5% 0402	3L39	4822 051 30222	2.2kΩ 5% 0.062W	4602	4822 051 30008	Jumper 0603
3F20	4822 117 13603	33kΩ 5% 0402	3L49	4822 117 13548	1kΩ 5% 0402	4603	4822 051 30008	Jumper 0603
3F24	4822 051 30103	10kΩ 5% 0.062W	3L53	4822 117 13597	330Ω 5% 0.01W 0402	4609	4822 051 30008	Jumper 0603
3F25	4822 051 30103	10kΩ 5% 0.062W	3L54	4822 117 13543	470Ω 5% 0402			

4A03	4822 051 30008	Jumper 0603
4A05	4822 117 13605	Jumper 0402
4A06	4822 117 13605	Jumper 0402
4D03	4822 117 13605	Jumper 0402
4D04	4822 117 13605	Jumper 0402
4E01	4822 117 13605	Jumper 0402
4E10	3198 031 01090	10Ω 5% 0.01W 0402
4E11	3198 031 01090	10Ω 5% 0.01W 0402
4G04	4822 117 13605	Jumper 0402
4G05	4822 117 13605	Jumper 0402
4G07	4822 117 13605	Jumper 0402
4G08	4822 117 13605	Jumper 0402
4G14	4822 051 30008	Jumper 0603
4G15	4822 051 30008	Jumper 0603
4G16	4822 051 30008	Jumper 0603
4G17	4822 051 30008	Jumper 0603
4G18	4822 051 30008	Jumper 0603
4G31	4822 117 13605	Jumper 0402
4J01	4822 117 13605	Jumper 0402
4K04	4822 117 13605	Jumper 0402
4K05	4822 117 13605	Jumper 0402
4K07	4822 051 30008	Jumper 0603
4L37	4822 117 13545	100Ω 1% 0402
4M00	4822 117 13605	Jumper 0402
4M01	4822 117 13605	Jumper 0402
4M02	4822 117 13605	Jumper 0402
4M03	4822 117 13605	Jumper 0402
4M05	4822 117 13605	Jumper 0402
4M08	4822 117 13605	Jumper 0402
4M09	4822 117 13605	Jumper 0402
4M10	4822 117 13605	Jumper 0402
4M16	4822 117 13605	Jumper 0402
4M17	4822 117 13605	Jumper 0402
4N01	4822 117 13605	Jumper 0402
4N02	4822 117 13605	Jumper 0402
4N03	4822 117 13605	Jumper 0402
4N04	4822 117 13605	Jumper 0402
4N05	4822 117 13605	Jumper 0402
4N06	4822 117 13605	Jumper 0402
4N07	4822 117 13605	Jumper 0402
4N08	4822 117 13605	Jumper 0402
4N09	4822 117 13605	Jumper 0402
4N10	4822 117 13605	Jumper 0402
4N11	4822 117 13605	Jumper 0402
4N12	4822 117 13605	Jumper 0402
4N13	4822 117 13605	Jumper 0402
4N23	4822 117 13605	Jumper 0402
4N25	4822 117 13605	Jumper 0402
4N26	4822 117 13605	Jumper 0402
4N27	4822 117 13605	Jumper 0402
4N29	4822 117 13605	Jumper 0402
4N30	4822 117 13605	Jumper 0402
4N31	4822 117 13605	Jumper 0402
4N34	4822 117 13605	Jumper 0402
4N35	4822 117 13605	Jumper 0402

5151	3198 018 33970	0.39μH 10% 0805
5152	4822 157 71334	0.68μH 5% 1008
5153	4822 157 71334	0.68μH 5% 1008
5201	4822 157 11716	Bead 30Ω at 100MHz
5202	4822 157 11716	Bead 30Ω at 100MHz
5203	4822 157 11716	Bead 30Ω at 100MHz
5204	2422 549 42896	Bead 120Ω 100MHz
5205	4822 157 11716	Bead 30Ω at 100MHz
5206	4822 157 11716	Bead 30Ω at 100MHz
5207	2422 549 42896	Bead 120Ω 100MHz
5208	4822 157 11716	Bead 30Ω at 100MHz
5209	4822 157 11716	Bead 30Ω at 100MHz
5210	4822 157 11716	Bead 30Ω at 100MHz
5211	4822 157 11716	Bead 30Ω at 100MHz
5212	4822 157 11716	Bead 30Ω at 100MHz
5213	4822 157 11716	Bead 30Ω at 100MHz
5214	2422 536 00667	1000μH 20% 7032
5216	4822 157 11716	Bead 30Ω at 100MHz
5218	2422 549 45333	Bead 120Ω at 100MHz
5700	2422 549 45333	Bead 120Ω at 100MHz
5704	2422 549 45333	Bead 120Ω at 100MHz
5709	2422 535 94134	10μH 20% 0805
5713	2422 536 01218	3.3μH 30%
5717	2422 536 00671	10μH 20%
5730	2422 535 94134	10μH 20% 0805
5733	2422 536 00707	33μH 20%
5735	2422 536 00516	100μH 20%
5737	2422 535 94134	10μH 20% 0805
5738	2422 549 45333	Bead 120Ω at 100MHz
5751	2422 535 94134	10μH 20% 0805
5756	2422 549 45333	Bead 120Ω at 100MHz
5757	2422 549 45333	Bead 120Ω at 100MHz
5900	2422 549 45333	Bead 120Ω at 100MHz
5901	2422 549 45333	Bead 120Ω at 100MHz
5902	2422 549 45333	Bead 120Ω at 100MHz

5903	2422 549 45333	Bead 120Ω at 100MHz
5904	2422 549 45333	Bead 120Ω at 100MHz
5905	2422 549 45333	Bead 120Ω at 100MHz
5906	2422 549 45333	Bead 120Ω at 100MHz
5907	2422 549 45333	Bead 120Ω at 100MHz
5908	2422 549 45333	Bead 120Ω at 100MHz
5909	2422 549 45333	Bead 120Ω at 100MHz
5910	2422 549 45333	Bead 120Ω at 100MHz
5911	2422 549 45333	Bead 120Ω at 100MHz
5C00	2422 549 45333	Bead 120Ω at 100MHz
5D00	2422 549 42896	Bead 120Ω 100MHz
5D01	2422 549 42896	Bead 120Ω 100MHz
5D02	2422 549 42896	Bead 120Ω 100MHz
5D03	2422 549 42896	Bead 120Ω 100MHz
5D04	2422 549 42896	Bead 120Ω 100MHz
5D05	2422 549 42896	Bead 120Ω 100MHz
5D06	2422 549 42896	Bead 120Ω 100MHz
5E00	2422 549 45333	Bead 120Ω at 100MHz
5E01	2422 549 45333	Bead 120Ω at 100MHz
5G01	2422 549 45333	Bead 120Ω at 100MHz
5G02	2422 549 45333	Bead 120Ω at 100MHz
5G03	2422 549 45333	Bead 120Ω at 100MHz
5G06	2422 549 45333	Bead 120Ω at 100MHz
5G07	2422 549 42896	Bead 120Ω 100MHz
5G08	2422 549 42896	Bead 120Ω 100MHz
5J01	2422 549 42896	Bead 120Ω 100MHz
5J02	2422 549 42896	Bead 120Ω 100MHz
5J03	2422 549 45333	Bead 120Ω at 100MHz
5J04	2422 549 45333	Bead 120Ω at 100MHz
5K00	3198 018 51080	1μH 10% 0603
5K01	3198 018 51080	1μH 10% 0603
5K02	3198 018 51080	1μH 10% 0603
5L01	2422 549 45333	Bead 120Ω at 100MHz
5L11	2422 549 45333	Bead 120Ω at 100MHz
5L17	2422 549 45333	Bead 120Ω at 100MHz
5L19	2422 549 45333	Bead 120Ω at 100MHz
5L21	2422 549 45333	Bead 120Ω at 100MHz
5L51	4822 157 71694	0.82μH 10%
5L52	3198 018 53380	3.3μH 10% 0603
5L53	3198 018 56880	6.8μH 10% 0603
5L61	4822 157 71694	0.82μH 10%
5L62	3198 018 53380	3.3μH 10% 0603
5L63	3198 018 56880	6.8μH 10% 0603
5L71	2422 549 45333	Bead 120Ω at 100MHz
5M00	2422 549 45333	Bead 120Ω at 100MHz
5M01	2422 549 45333	Bead 120Ω at 100MHz
5M02	2422 549 45333	Bead 120Ω at 100MHz
5M03	2422 549 45333	Bead 120Ω at 100MHz
5M04	2422 549 45333	Bead 120Ω at 100MHz
5M05	2422 549 45333	Bead 120Ω at 100MHz
5N03	4822 157 11716	Bead 30Ω at 100MHz
5N04	4822 157 11716	Bead 30Ω at 100MHz
5N05	4822 157 11716	Bead 30Ω at 100MHz
5N06	4822 157 11716	Bead 30Ω at 100MHz
5N07	4822 157 11716	Bead 30Ω at 100MHz
5N10	4822 157 11716	Bead 30Ω at 100MHz
5N11	4822 157 11716	Bead 30Ω at 100MHz
5N12	4822 157 11716	Bead 30Ω at 100MHz
5N72	4822 157 11716	Bead 30Ω at 100MHz



6151	4822 130 11416	PDZ6.8B
6152	4822 130 11416	PDZ6.8B
6153	4822 130 11397	BAS316
6154	4822 130 11525	1SS356
6204	4822 130 80622	BAT54
6205	4822 130 80622	BAT54
6430	9340 548 42115	PDZ2.4B
6431	9965 000 20150	1N4148WS SOD-323
6601	4822 130 10838	UDZ3.3B
6717	4822 130 11397	BAS316
6718	3198 010 10720	SS24
6733	9322 128 70685	SMSS14
6734	4822 130 11416	PDZ6.8B
6735	5322 130 34337	BAV99
6736	9340 548 71115	PDZ33B
6740	4822 130 10837	UDZS8.2B
6G01	4822 130 11564	UDZ3.9B
6G02	4822 130 11564	UDZ3.9B
6G03	4822 130 11564	UDZ3.9B
6G04	4822 130 11564	UDZ3.9B
6G06	4822 130 11564	UDZ3.9B
6G07	4822 130 11564	UDZ3.9B
6G08	4822 130 11564	UDZ3.9B
6G09	4822 130 11564	UDZ3.9B
6N19	9322 085 77685	TLMG3100



7151	3198 010 42310	BC847BW
7201	9340 550 49115	PUMH7

7202	9340 550 49115	PUMH7
7206	4822 130 60373	BC856B
7207		For SW see item 0802
7208	3198 010 42310	BC847BW
7209	3198 010 42310	BC847BW
7210	3198 010 42310	BC847BW
7214	9339 693 90135	BCP69-25
7215	9339 693 90135	BCP69-25
7216	9340 425 20115	BC847BS
7217		For SW see item 0801
7217	9352 803 66557	TDA15021H/N1C91
7219	3198 010 71090	74HC4053D
7219	9322 164 91668	CD74HC4053M
7220	9965 000 04199	BSN20
7221	9965 000 04199	BSN20
7430	4822 130 11155	PDTC114ET
7436	3198 010 70740	74LCX14T
7436	9322 221 97668	SN74LVC14APW
7601	9322 183 05668	TS482ID
7602	9351 742 70118	74HC08PW
7603	3198 010 42310	BC847BW
7604	3198 010 42310	BC847BW
7605	9340 310 50215	PDTA143ET
7606	9340 425 20115	BC847BS
7607	3198 010 42310	BC847BW
7708	9322 139 16668	LF33CPT
7710	9322 182 77668	L6910
7711	9322 160 70668	SI4936ADY
7730	9322 202 34668	L5973D
7735	4822 130 11057	2N7002
7738	9322 163 24668	L78M08CDT
7741	3198 010 42310	BC847BW
7742	3198 010 42310	BC847BW
7754	9322 214 00668	SI2301BDS-E3
7755	4822 130 11155	PDTC114ET
7756	4822 130 11155	PDTC114ET
7758	9322 212 14668	SI4423DY
7801	9322 230 32671	For SW see item 0811
7900	9322 142 88668	LF25CDT
7901	9322 189 19668	LD1086D2T18
7A02	3198 010 42310	BC847BW
7A03	3198 010 42310	BC847BW
7B01	9322 214 42671	K4D263238F-QC50
7B01	9322 235 50671	K4D263238I-UC50
7C01	9322 189 01668	AT24C32AN
7C01	9322 206 23668	For SW see item 0812
7C02	9322 215 39685	PST596JN
7C03	9322 199 93668	M29W400DT-55N6
7D00		For SW see item 0821
7D01		For SW see item 0822
7D02	9322 189 19668	LD1086D2T18
7D03	9352 784 83551	TDA9974AEL/8/C1
7D03	9352 810 72557	TDA9974AEL/8/C107
7D04	9352 668 39118	UDA1334ATS/N2
7D05	2722 171 00038	Xtal 13M5 15pF
7E00	9322 195 23668	ADG733BRU
7E01	9322 199 80668	SM5301BS-G
7E04	3198 010 70740	74LCX14T
7E04	9322 221 97668	SN74LVC14APW
7E05	3198 010 70740	74LCX14T
7E05	9322 221 97668	SN74LVC14APW
7F01	3198 010 42310	BC847BW
7F02	3198 010 42310	BC847BW
7F03	4822 209 15765	74HC4052D
7F04	3198 010 42310	BC847BW
7F05	3198 010 42310	BC847BW
7G01	3198 010 42310	BC847BW
7G02	3198 010 42310	BC847BW
7G11	3198 010 71090	74HC4053D
7G11	9322 164 91668	CD74HC4053M
7L01	9322 226 40671	P3563M-LF-80
7L02	4822 209 17398	LD1117DT33
7L51	3198 010 42310	BC847BW
7L52	3198 010 42320	BC857BW
7L61	3198 010 42310	BC847BW
7L62	3198 010 42320	BC857BW
7L71	3198 010 42310	BC847BW
7L72	9322 226 94668	SM5304AV-G
7M00	9322 204 76671	T6TU5XBG-0001
7M01	9322 206 19672	MSM56V16160F-7T3-FG
7M03	9322 170 14668	LF15ABDT
7N00	9322 229 60671	PACIFIC3-N2/N1
7N00	9322 230 92671	PACIFIC3-N3(O2)
7N02	9322 206 45668	M25P05-AVMN6P
7N03	9322 187 04668	LF25ABDT
7N04	9322 170 14668	LF15ABDT



1002	2422 025 10769	Connector 9p m
1003	2422 025 10768	Connector 3p m

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2001	2020 024 00023	220μ 35V
2002	2238 586 59812	100nF 20% 50V 0603
2003	2238 586 59812	100nF 20% 50V 0603
2004	2020 024 00023	220μ 35V
2006	2020 552 94427	100pF 5% 50V
2007	2020 552 94427	100pF 5% 50V
2008	2020 552 94427	100pF 5% 50V
2009	2020 552 94427	100pF 5% 50V
2010	2238 586 59812	100nF 20% 50V 0603
2012	2020 024 00023	220μ 35V
2014	4822 126 14238	2.2nF 50V 0603
2015	4822 126 14238	2.2nF 50V 0603
2016	4822 126 14238	2.2nF 50V 0603
2017	2238 586 59812	100nF 20% 50V 0603
2018	3198 017 31530	15nF 20% 50V 0603
2019	3198 037 52280	2.2μ 50V
2020	4822 126 13883	220pF 5% 50V
2021	4822 126 13883	220pF 5% 50V
2022	4822 126 14076	220nF +80/-20% 25V
2023	4822 121 51252	470nF 5% 63V
2024	2020 012 00036	1000μ 25V
2026	3198 017 42240	220nF 16V Y5V 0603
2027	2238 586 59812	100nF 20% 50V 0603
2028	2238 586 59812	100nF 20% 50V 0603
2029	2020 024 00023	220μ 35V
2030	4822 126 14238	2.2nF 50V 0603
2031	4822 126 14238	2.2nF 50V 0603
2032	4822 126 14238	2.2nF 50V 0603
2034	2238 586 59812	100nF 20% 50V 0603
2035	4822 126 13883	220pF 5% 50V
2036	4822 126 13883	220pF 5% 50V
2037	3198 037 52280	2.2μ 50V
2038	3198 017 31530	15nF 20% 50V 0603
2039	2020 552 96656	10μF 20% 25V 1210
2040	3198 017 42240	220nF 16V Y5V 0603
2041	2020 552 96656	10μF 20% 25V 1210
2042	4822 121 51252	470nF 5% 63V
2043	2020 012 00036	1000μ 25V
2044	2238 586 59812	100nF 20% 50V 0603
2045	4822 126 14076	220nF +80/-20% 25V
2047	3198 017 41050	1μF 10V 0603
2048	2238 586 59812	100nF 20% 50V 0603
2049	2020 552 96305	4.7μF 20-80% 10V
2051	2020 552 94427	100pF 5% 50V
2052	4822 126 14238	2.2nF 50V 0603
2053	4822 126 14238	2.2nF 50V 0603
2054	4822 126 14238	2.2nF 50V 0603
2055	4822 126 14238	2.2nF 50V 0603
2060	4822 126 14238	2.2nF 50V 0603
2061	4822 126 14238	2.2nF 50V 0603
2062	3198 017 34730	47nF 16V 0603
2063	3198 017 34730	47nF 16V 0603
2064	5322 126 11579	3.3nF 10% 63V
2065	5322 126 11579	3.3nF 10% 63V

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3001	5322 117 11726	10Ω 5%
3002	4822 051 30562	5.6kΩ 5% 0.063W 0603
3003	4822 051 30223	22kΩ 5% 0.062W
3004	4822 051 30332	3.3Ω 5% 0.062W
3006	4822 051 30102	1kΩ 5% 0.062W
3007	4822 117 12925	47kΩ 1% 0.063W 0603
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 117 12891	220kΩ 1%
3010	4822 051 30272	2.7kΩ 5% 0.062W
3011	4822 051 30222	2.2kΩ 5% 0.062W
3012	4822 051 20109	10Ω 5% 0.1W
3013	4822 051 30123	12kΩ 5% 0.1W
3014	2322 762 60229	22Ω 5% 1005
3019	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30332	3.3Ω 5% 0.062W
3021	4822 051 30472	4.7Ω 5% 0.062W
3022	3198 021 32290	22Ω 5% 0603
3023	4822 051 30102	1kΩ 5% 0.062W
3024	4822 117 12925	47kΩ 1% 0.063W 0603
3025	4822 051 30222	2.2kΩ 5% 0.062W
3026	4822 051 30272	2.7kΩ 5% 0.062W
3027	4822 117 12891	220kΩ 1%
3028	4822 051 30103	10kΩ 5% 0.062W
3029	4822 051 30222	2.2kΩ 5% 0.062W
3030	4822 051 20109	10Ω 5% 0.1W
3031	2322 762 60229	22Ω 5% 1005
3032	4822 051 30392	3.9Ω 5% 0.063W 0603
3033	4822 051 30123	12kΩ 5% 0.1W
3034	4822 051 30392	3.9Ω 5% 0.063W 0603
3037	4822 051 30392	3.9Ω 5% 0.063W 0603

3039	4822 051 30103	10kΩ 5% 0.062W
3040	4822 051 30103	10kΩ 5% 0.062W
3041	4822 051 30103	10kΩ 5% 0.062W
3042	4822 051 30103	10kΩ 5% 0.062W
3043	4822 051 30103	10kΩ 5% 0.062W
3046	4822 051 30102	1kΩ 5% 0.062W
3047	4822 051 30102	1kΩ 5% 0.062W

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5001	2422 549 44197	Bead 220Ω at 100MHz
5002	3198 018 52280	2.2μH 10% 0603
5003	3198 018 52280	2.2μH 10% 0603
5004	3198 018 52280	2.2μH 10% 0603
5005	3198 018 52280	2.2μH 10% 0603
5006	2422 536 01034	33μH
5007	2422 536 01034	33μH

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6002	4822 130 80622	BAT54
6003	4822 130 80622	BAT54

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7000	9352 760 45118	TDA8931T/N1
7001	9352 760 45118	TDA8931T/N1
7004	9322 209 56685	TL431ACDBV

## Side I/O Panel [D]

## Various

1001	2422 026 05133	Connector SVHS 4p f
1002	2422 026 05807	Sckt Cinch 3p f YeWhRd
1010	4822 267 31014	Sckt headphone
1301	4822 267 10484	YKF51-5359
1302	2422 026 05655	Cinch 3p f RdWhYe
1303	2422 026 05059	Connector Phone
1304	2422 025 10772	Connector 12p m
1M36	2422 025 17179	Connector 11p m

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2003	2022 552 05679	1μF 10% 16V 0805
2004	3198 016 36810	680pF 25V 0603
2005	2020 552 94427	100pF 5% 50V
2006	3198 016 36810	680pF 25V 0603
2007	2020 552 94427	100pF 5% 50V
2008	2238 916 15641	22nF 10% 25V 0603
2009	5322 126 11583	10nF 10% 50V 0603
2010	2238 916 15641	22nF 10% 25V 0603
2011	5322 126 11583	10nF 10% 50V 0603
2302	4822 126 11785	47pF 5% 50V 0603
2304	4822 126 11785	47pF 5% 50V 0603
2306	4822 126 14241	330pF 0603 50V
2307	4822 126 14241	330pF 0603 50V
2308	5322 126 11583	10nF 10% 50V 0603
2309	5322 126 11583	10nF 10% 50V 0603
2310▲	3198 017 41050	1μF 10V 0603

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3000	4822 051 30759	75Ω 5% 0.062W
3004	4822 051 30759	75Ω 5% 0.062W
3008	4822 051 30222	2.2kΩ 5% 0.062W
3009	4822 051 30102	1kΩ 5% 0.062W
3010	4822 051 30333	33kΩ 5% 0.062W
3011	4822 051 30392	3.9Ω 5% 0.063W 0603
3012	4822 051 30102	1kΩ 5% 0.062W
3013	4822 051 30333	33kΩ 5% 0.062W
3016	4822 051 30103	10kΩ 5% 0.062W
3020	4822 051 30103	10kΩ 5% 0.062W
3301	4822 051 30759	75Ω 5% 0.062W
3302	4822 051 30109	10Ω 5% 0.062W
3303	4822 051 30109	10Ω 5% 0.062W
3304	4822 051 30759	75Ω 5% 0.062W
3305	4822 117 13632	100kΩ 1% 0603 0.62W
3306	4822 051 30153	15kΩ 5% 0.062W
3307	4822 051 30102	1kΩ 5% 0.062W
3308	4822 051 30153	15kΩ 5% 0.062W
3309▲	4822 051 30759	75Ω 5% 0.062W
3310▲	4822 051 30563	56kΩ 5% 0.062W
3311	4822 051 30103	10kΩ 5% 0.062W
4301	4822 051 30008	Jumper 0603
9004	4822 051 30008	Jumper 0603
9005	4822 051 30008	Jumper 0603
9006	4822 051 30008	Jumper 0603
9007	4822 051 30008	Jumper 0603

9008	4822 051 30008	Jumper 0603
9009	4822 051 30008	Jumper 0603
9010	4822 051 30008	Jumper 0603
9011	4822 051 30008	Jumper 0603
9390	3198 036 90010	Wire 0.58mm
9391	3198 036 90010	Wire 0.58mm
9392	3198 036 90010	Wire 0.58mm
9393	3198 036 90010	Wire 0.58mm

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6000	4822 130 11416	PDZ6.8B
6001	4822 130 11416	PDZ6.8B
6002	4822 130 11416	PDZ6.8B
6003	4822 130 11416	PDZ6.8B
6004	4822 130 11416	PDZ6.8B
6005	4822 130 11416	PDZ6.8B
6006	4822 130 11416	PDZ6.8B
6007	4822 130 11416	PDZ6.8B
6008	4822 130 11416	PDZ6.8B
6009	4822 130 11416	PDZ6.8B
6010	4822 130 11416	PDZ6.8B
6011	4822 130 11416	PDZ6.8B
6301	9322 129 41685	BZM55-C12
6302	9322 129 41685	BZM55-C12
6303	9322 129 41685	BZM55-C12
6304	9322 129 41685	BZM55-C12
6305	9322 129 41685	BZM55-C12
6306	9322 129 41685	BZM55-C12
6307	9322 129 41685	BZM55-C12
6308	9322 129 41685	BZM55-C12

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7301▲	4822 130 60373	BC856B
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## Control Board [E]

## Various

1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V
1314	4822 276 13775	Switch 1p 0.1A 12V
1684	4822 267 10459	Connector 3p
1701	4822 276 13775	Switch 1p 0.1A 12V
1702	4822 276 13775	Switch 1p 0.1A 12V
1703	4822 276 13775	Switch 1p 0.1A 12V
1704	4822 276 13775	Switch 1p 0.1A 12V
1705	4822 276 13775	Switch 1p 0.1A 12V
1706	4822 276 13775	Switch 1p 0.1A 12V
1M01	2422 025 10775	Connector 3p m
8684	3139 131 04421	Cable 3p/340/3p

—WW—

3002	4822 051 30151	150Ω 5% 0.062W
3003	4822 051 30391	390Ω 5% 0.062W
3004	4822 051 30561	560Ω 5% 0.062W
3005	4822 117 12968	820Ω 5% 0.62W
3006	3198 021 31820	1.8kΩ 5% 0.062W 0603
3318	4822 051 30151	150Ω 5% 0.062W
3319	4822 051 30391	390Ω 5% 0.062W
3320	3198 021 31820	1.8kΩ 5% 0.062W 0603
3321	4822 117 12968	820Ω 5% 0.62W
3322	4822 051 30008	Jumper 0603
3323	4822 051 30008	Jumper 0603
3324	4822 051 30561	560Ω 5% 0.062W
3999	4822 117 11454	820Ω 1% 0.1W

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6306	4822 130 11148	UDZ4.7B
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## LED &amp; IR Panel [J]

## Various

0345	2422 025 18741	Connector 6p m
1001	3139 237 16673	PWB ASSY RC4343/01
1040	9322 206 81667	TSOP34836YA1
1309	4822 276 13775	Switch 1p 0.1A 12V
1310	4822 276 13775	Switch 1p 0.1A 12V
1311	4822 276 13775	Switch 1p 0.1A 12V
1312	4822 276 13775	Switch 1p 0.1A 12V
1313	4822 276 13775	Switch 1p 0.1A 12V

1314	4822 276 13775	Switch 1p 0.1A 12V
1684	2422 025 10775	Connector 3p m
8684	3139 131 04421	Cable 3p/340/3p

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2002	2022 020 00897	22μF 20% 6V3
2040	4822 124 12095	100μF 20% 16V
2801	2020 552 96637	10μF 10% 6.3V 0805
2802	2020 552 96637	10μF 10% 6.3V 0805

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3040	4822 117 13597	330Ω 5% 0.01W 0402
3051	4822 051 30221	220Ω 5% 0.062W
3061	4822 051 30221	220Ω 5% 0.062W
3063	4822 117 13606	10kΩ 5% 0.01W 0402
3078	3198 031 02250	2.2MΩ 5% 0.1W 0402
3318	4822 051 30151	150Ω 5% 0.062W
3319	4822 051 30391	390Ω 5% 0.062W
3320	3198 021 31820	1.8kΩ 5% 0.062W 0603
3321	4822 117 12968	820Ω 5% 0.62W
3324	4822 051 30561	560Ω 5% 0.062W
3801	4822 051 30332	3.3Ω 5% 0.062W
3802	4822 051 30331	330Ω 5% 0.062W
3803	4822 051 30221	220Ω 5% 0.062W
4815	4822 051 30008	Jumper 0603
9012	4822 117 13605	Jumper 0402
9041	4822 117 13605	Jumper 0402
9042	4822 117 13605	Jumper 0402
9062	4822 117 13605	Jumper 0402
9066	4822 117 13606	10kΩ 5% 0.01W 0402
9070	4822 117 13605	Jumper 0402
9081	4822 117 13605	Jumper 0402
9082	4822 117 13605	Jumper 0402
9111	4822 117 13605	Jumper 0402
9112	4822 117 13605	Jumper 0402
9115	4822 117 13605	Jumper 0402
9122	4822 117 13605	Jumper 0402

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5000	2422 540 98534	Reson. 4MHz ZTT**MGW
5001	2422 540 98534	Reson. 4MHz ZTT**MGW

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6000	9322 207 77676	LED IR LTE-3271BL-JA
6001	9322 218 40668	LED IR L-934F3BT
6051	9322 218 97685	SML-310VTK
6060	9322 134 46685	SML-310MT
6070	9322 140 63685	TEMD5000
6306	4822 130 11148	UDZ4.7B
6311	4822 130 11148	UDZ4.7B
6312	4822 130 11148	UDZ4.7B
6314	4822 130 11148	UDZ4.7B
6801	9322 192 35676	SPR-325MVW
6803	4822 130 11564	UDZ3.9B
6809	4822 130 11564	UDZ3.9B



7051	3198 010 42310	BC847BW
7052	3198 010 42310	BC847BW
7062	4822 130 60373	BC856B
7801	4822 130 60373	BC856B
7802	9322 206 81667	TSOP34836YA1
7802	9322 207 16667	TSOP34836LL1B
7803	5322 130 60159	BC846B
7804	5322 130 60159	BC846B

### Standby & Audio Panel 37-42" [SA]

#### Various

1303	2422 025 04475	Connector 4p m
1304	2422 025 10647	Connector 4p m
1305	4822 267 10735	Connector 3p
1306▲	2422 025 16374	Connector 2p m
1307	2422 025 10647	Connector 4p m
1309	2422 025 11143	Connector 3p m
1315	2422 025 10771	Connector 10p m
1316	2422 025 10772	Connector 12p m
1319	2422 025 10773	Connector 14p m
1320	2422 025 11143	Connector 3p m
1735	4822 267 10918	Connector 3p
1736	2422 025 10768	Connector 3p m
1739	2422 025 10769	Connector 9p m
1M02	2422 025 11244	Connector 7p m

1M03	2422 025 10771	Connector 10p m
1M10	2422 025 09406	Connector 4p m
1M46	2422 025 10655	Connector 11p m
8103	3104 311 06641	Cable 10p/180/10p
8146	3104 311 08621	Cable 11p/220/11p
8152	3104 311 06811	Cable 9p/340/9p
8305	3104 311 08401	Cable 3p/280/3p
8305▲	3104 311 08411	Cable 3p/340/3p
8306	3104 311 08351	Cable 2p3/340/2p3
8322	3104 311 09221	Cable 10p/220/10p Wh
8337	3104 311 11551	Cable 11p/220/11p Wh
8J04	3104 311 06811	Cable 9p/340/9p

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2101	4822 121 51598	2.2nF 5% 400V
2102	4822 124 40207	100μF 20% 25V
2103	2020 552 94427	100pF 5% 50V
2105	2020 552 94427	100pF 5% 50V
2109	4822 126 14583	470nF 10% 16V 0805
2110	2022 552 05679	1μF 10% 16V 0805
2111	4822 121 43526	47nF 5% 250V
2112	5322 126 11583	10nF 10% 50V 0603
2123	2238 586 59812	100nF 20% 50V 0603
2124	4822 124 40248	10μF 20% 63V
2129	5322 126 11578	1nF 10% 50V 0603
2140	4822 124 40248	10μF 20% 63V
2141	4822 126 14583	470nF 10% 16V 0805
2144	2022 552 05679	1μF 10% 16V 0805
2145	4822 126 13881	470pF 5% 50V
2149	4822 126 14583	470nF 10% 16V 0805
2150	4822 124 12379	220μF 25V
2152	4822 121 70162	10nF 5% 400V
2153	5322 126 11582	6.8nF 10% 63V
2154	3198 017 31530	15nF 20% 50V 0603
2163	4822 124 40207	100μF 20% 25V
2506▲	2022 554 04155	470pF 20% 250V
2507	4822 126 13682	100pF 5% 1kV
2508	4822 124 40764	22μF 100V
2510	2020 021 91668	2200μF 20% 10V
2511	4822 124 12379	220μF 25V
2512	4822 124 80061	1000μF 20% 25V
2513	2222 930 56627	2.2nF 10% 200V 0805
2533	4822 124 40207	100μF 20% 25V
2534	2022 552 05679	1μF 10% 16V 0805
2535	5322 126 11583	10nF 10% 50V 0603
2536	5322 126 11583	10nF 10% 50V 0603
2537	4822 126 14238	2.2nF 50V 0603
2539	2022 552 05679	1μF 10% 16V 0805
2540	5322 126 11583	10nF 10% 50V 0603
2544	5322 126 11583	10nF 10% 50V 0603
2702	5322 126 11578	1nF 10% 50V 0603
2704	5322 126 11578	1nF 10% 50V 0603
2705	2020 552 96684	470nF 10% 25V 0805
2706	2222 580 15649	100nF 10% 50V 0805
2707	4822 126 14585	100nF 10% 0805 50V
2708	2020 552 96326	220nF 10% 16V
2709	4822 126 13881	470pF 5% 50V
2710	4822 126 13881	470pF 5% 50V
2711	5322 126 11578	1nF 10% 50V 0603
2712	2020 552 96683	220nF 10% 50V
2713	2020 552 96684	470nF 10% 25V 0805
2714	3198 017 33330	33nF 20% 16V 0603
2715	5322 126 11578	1nF 10% 50V 0603
2716	4822 126 14241	330pF 0603 50V
2717	5322 121 42498	680nF 5% 63V
2718	4822 122 33761	22pF 5% 50V
2719	5322 126 11578	1nF 10% 50V 0603
2720	2020 552 96326	220nF 10% 16V
2721	4822 126 13881	470pF 5% 50V
2722	4822 126 13881	470pF 5% 50V
2725	2020 552 94427	100pF 5% 50V
2726	3198 017 33330	33nF 20% 16V 0603
2727	5322 126 11578	1nF 10% 50V 0603
2728	4822 126 14241	330pF 0603 50V
2729	5322 121 42498	680nF 5% 63V
2764	4822 126 14491	2.2μF 10V 0805
2766	4822 126 14491	2.2μF 10V 0805
2768	4822 124 40255	100μF 20% 63V
2769	4822 124 40255	100μF 20% 63V
2777	2020 552 96683	220nF 10% 50V
2778	4822 124 40769	4.7μF 20% 100V
2779	2020 552 96683	220nF 10% 50V
2780	2020 552 96683	220nF 10% 50V
2781	2020 552 96683	220nF 10% 50V
2783	4822 124 41751	47μF 20% 50V
2785	4822 124 40207	100μF 20% 25V
2786	2238 586 15641	22nF 10% 50V 0603
2788	4822 124 40255	100μF 20% 63V
2789	2020 552 96683	220nF 10% 50V
2790	4822 124 40255	100μF 20% 63V

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3100	4822 051 30101	100Ω 5% 0.062W
3101	4822 053 20475	4.7MΩ 5% 0.25W
3102	2312 915 11002	1kΩ 1% 0.5W
3103	2312 915 11002	1kΩ 1% 0.5W
3104	4822 051 30479	47Ω 5% 0.062W
3105	4822 051 30221	220Ω 5% 0.062W
3106	4822 051 30391	390Ω 5% 0.062W
3107	4822 051 30391	390Ω 5% 0.062W
3108	4822 053 10478	4.7Ω 5% 1W
3109	4822 051 30391	390Ω 5% 0.062W
3110	4822 051 30391	390Ω 5% 0.062W
3111	4822 053 10152	1.5kΩ 5% 1W
3112	4822 051 30391	390Ω 5% 0.062W
3113	3198 021 32290	22Ω 5% 0603
3114	4822 051 30221	220Ω 5% 0.062W
3117	4822 051 30479	47Ω 5% 0.062W
3122	4822 051 30471	47Ω 5% 0.062W
3123	4822 051 30109	10Ω 5% 0.062W
3124	4822 051 30339	33Ω 5% 0.062W
3125	4822 117 12971	15Ω 5% 0603 0.62W
3126	4822 051 30103	10kΩ 5% 0.062W
3127	4822 051 30562	5.6kΩ 5% 0.063W 0603
3128	3198 021 34780	4.7Ω 5% 0603
3132	4822 051 30333	33kΩ 5% 0.062W
3134	4822 051 30102	1kΩ 5% 0.062W
3138	4822 051 30105	1MΩ 5% 0.062W
3140	4822 051 30223	22kΩ 5% 0.062W
3141	4822 051 30471	47Ω 5% 0.062W
3145	4822 051 30472	4.7Ω 5% 0.062W
3146	4822 051 30479	47Ω 5% 0.062W
3147	4822 051 30223	22kΩ 5% 0.062W
3148	4822 051 30479	47Ω 5% 0.062W
3149	4822 051 30103	10kΩ 5% 0.062W
3150	4822 051 30101	100Ω 5% 0.062W
3152	4822 051 30102	1kΩ 5% 0.062W
3153	4822 051 30223	22kΩ 5% 0.062W
3155	4822 050 21003	10kΩ 1% 0.6W
3156	4822 051 30102	1kΩ 5% 0.062W
3157	4822 051 30223	22kΩ 5% 0.062W
3158	4822 051 30479	47Ω 5% 0.062W
3159	4822 051 30479	47Ω 5% 0.062W
3160	4822 051 30102	1kΩ 5% 0.062W
3175	4822 051 30103	10kΩ 5% 0.062W
3176	4822 051 30103	10kΩ 5% 0.062W
3190	4822 053 10222	2.2kΩ 5% 1W
3191	4822 053 10222	2.2kΩ 5% 1W
3192	4822 053 10222	2.2kΩ 5% 1W
3506	4822 051 30471	47Ω 5% 0.062W
3513	4822 051 30333	33kΩ 5% 0.062W
3528	4822 051 30472	4.7Ω 5% 0.062W
3529	4822 051 30101	100Ω 5% 0.062W
3531	4822 051 30153	15kΩ 5% 0.062W
3532	4822 051 30472	4.7Ω 5% 0.062W
3538	4822 051 30101	100Ω 5% 0.062W
3540	4822 051 30222	2.2kΩ 5% 0.062W
3541	4822 051 30222	2.2kΩ 5% 0.062W
3542	4822 051 30103	10kΩ 5% 0.062W
3543	4822 051 30223	22kΩ 5% 0.062W
3544	4822 051 30221	220Ω 5% 0.062W
3560	4822 051 30682	6.8Ω 5% 0.062W
3561	4822 051 30392	3.9Ω 5% 0.063W 0603
3562	3198 021 34780	4.7Ω 5% 0603
3701	4822 051 30103	10kΩ 5% 0.062W
3702	4822 051 30682	6.8Ω 5% 0.062W
3703	4822 051 30333	33kΩ 5% 0.062W
3704	4822 117 10833	10kΩ 1% 0.1W
3705	4822 051 20828	8.2Ω 5% 0.1W
3706	4822 051 30472	4.7Ω 5% 0.062W
3707	4822 051 30683	68kΩ

3748	4822 051 30471	47Ω 5% 0.062W
3750	4822 117 11449	2.2kΩ 5% 0.1W 0805
3756	4822 117 11449	2.2kΩ 5% 0.1W 0805
3757	4822 117 11449	2.2kΩ 5% 0.1W 0805
3759	4822 051 30332	3.3Ω 5% 0.062W
3760	4822 051 30332	3.3Ω 5% 0.062W
3761	4822 117 10833	10kΩ 1% 0.1W
3761	4822 117 11454	820Ω 1% 0.1W
3762	4822 051 30222	2.2kΩ 5% 0.062W
3763	4822 051 30222	2.2kΩ 5% 0.062W
3764	4822 117 10833	10kΩ 1% 0.1W
3764	4822 117 11454	820Ω 1% 0.1W
3765	4822 051 30123	12kΩ 5% 0.1W
3766	4822 051 30103	10kΩ 5% 0.062W
3767	4822 051 30123	12kΩ 5% 0.1W
3768	4822 051 30103	10kΩ 5% 0.062W
3790	4822 051 30682	6.8Ω 5% 0.062W
3791	4822 051 30682	6.8Ω 5% 0.062W
3792	4822 051 30153	15kΩ 5% 0.062W
3793	4822 051 30153	15kΩ 5% 0.062W
3798	4822 051 30153	15kΩ 5% 0.062W
3999	3198 021 38220	8.2kΩ 5% 0.062W 0603
3999	4822 117 12864	82kΩ 5% 0.6W
9041	4822 051 20008	Jumper 0805
9042	4822 051 20008	Jumper 0805
9044	4822 051 20008	Jumper 0805
9080	4822 051 20008	Jumper 0805
9081	4822 051 20008	Jumper 0805

5102	4822 526 10704	Bead 50 Ω at 100MHz
5103	4822 526 10704	Bead 50 Ω at 100MHz
5104	4822 157 11411	Bead 80Ω at 100MHz
5105	2422 549 43769	Bead 30Ω at 100MHz
5106	4822 157 11441	22μH 5%
5108	4822 526 10704	Bead 50 Ω at 100MHz
5110	4822 157 71736	10μH 5%
5500▲	3104 308 21181	BS25320-00
5504	2422 536 00776	33μH 10%
5505	4822 157 11411	Bead 80Ω at 100MHz
5506	4822 157 11411	Bead 80Ω at 100MHz
5507	2422 536 00433	15μH 10%
5701	2422 536 00951	68μH 20% LHL10
5702	2422 536 00951	68μH 20% LHL10
5703	4822 157 11716	Bead 30Ω at 100MHz
5705	4822 157 11716	Bead 30Ω at 100MHz
5707	4822 157 11411	Bead 80Ω at 100MHz
5708	4822 157 11411	Bead 80Ω at 100MHz
5711	4822 157 11411	Bead 80Ω at 100MHz
5712	4822 157 11411	Bead 80Ω at 100MHz
5730	2422 549 00112	Line filt. 50V 3A
5731	2422 549 00112	Line filt. 50V 3A

6103	5322 130 31938	BYV27-200
6104	9340 548 69115	PDZ27B
6105	4822 130 11522	UDZ15B
6106	9340 548 67115	PDZ22B
6108	4822 130 80622	BAT54
6114	5322 130 31938	BYV27-200
6115	4822 130 80622	BAT54
6116	3198 020 55680	BZX384-C5V6
6120	4822 130 11397	BAS316
6121	4822 130 11397	BAS316
6122	9322 129 34685	BZM55-C3V9
6133	4822 130 11397	BAS316
6140	4822 130 83755	BYW36
6142	4822 130 80622	BAT54
6144	4822 130 11397	BAS316
6147	9322 208 44685	BZG05C6V8
6148	4822 130 11397	BAS316
6149	3198 020 55680	BZX384-C5V6
6150	9340 292 50135	BZG03-C200
6151	9340 548 71115	PDZ33B
6153	9340 292 50135	BZG03-C200
6156	4822 130 11397	BAS316
6504	9322 203 12673	BYV27-600
6505	9322 161 78682	SB360L-7024
6531	4822 130 11522	UDZ15B
6532	4822 130 11397	BAS316
6540	4822 130 80622	BAT54
6562	9340 548 67115	PDZ22B
6701	4822 130 11397	BAS316
6702	4822 130 11551	UDZS10B
6703	4822 130 11551	UDZS10B
6704	4822 130 11397	BAS316

7100 3198 010 42320 BC857BW

7101	9340 219 30115	BC817-25W
7102	9322 160 34687	FQPF3N60
7105	3198 010 42320	BC857BW
7140	3198 010 42310	BC847BW
7150▲	9322 149 04682	TCET1102
7501▲	9322 149 04682	TCET1102
7505	3198 010 42320	BC857BW
7506	3198 010 42310	BC847BW
7507	3198 010 42310	BC847BW
7509	3198 010 42310	BC847BW
7531	9340 436 50115	BSP030
7532	3198 010 42310	BC847BW
7560	9340 219 30115	BC817-25W
7700	9322 163 86682	TDA7490L
7701	3198 010 42310	BC847BW
7703	3198 010 42310	BC847BW
7704	3198 010 42310	BC847BW
7705	3198 010 42310	BC847BW
7706	3198 010 42320	BC857BW
7707	3198 010 42310	BC847BW
7709	3198 010 42310	BC847BW
7710	3198 010 42310	BC847BW

### OTC Flash Panel [T]

#### Various

1000	2422 025 19459	Connector 14p m
1001	2422 543 01497	Xtal 6MHz 20pF
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2001	4822 126 14324	33pF 5% 50V 0402
2002	3198 034 02790	47pF 1% 50V 0402
2003	2020 552 96718	220nF 10% 6.3V 0402
2004	2020 552 96718	220nF 10% 6.3V 0402
2007	3198 035 71040	100nF 10% 16V 0402
2008	3198 035 71040	100nF 10% 16V 0402
2010	3198 034 04790	27pF 1% 50V 0402
2011	3198 034 04790	27pF 1% 50V 0402
2012	3198 034 04790	27pF 1% 50V 0402
2019	3198 035 71040	100nF 10% 16V 0402
2020	3198 035 71040	100nF 10% 16V 0402
2021	3198 035 71040	100nF 10% 16V 0402
2022	3198 035 71040	100nF 10% 16V 0402
2023	3198 035 71040	100nF 10% 16V 0402
2024	3198 035 71040	100nF 10% 16V 0402
2025	3198 035 71040	100nF 10% 16V 0402
2026	3198 035 71040	100nF 10% 16V 0402
2027	3198 035 71040	100nF 10% 16V 0402
2028	3198 035 71040	100nF 10% 16V 0402
2029	4822 124 12095	100μF 20% 16V
2031	3198 035 71040	100nF 10% 16V 0402
2033	2238 869 15829	82pF 5% 50V 0402
2034	2238 869 15829	82pF 5% 50V 0402
2035	2238 869 15829	82pF 5% 50V 0402
2036	2238 869 15829	82pF 5% 50V 0402
2037	2238 869 15829	82pF 5% 50V 0402
2038	3198 035 71040	100nF 10% 16V 0402

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3002	4822 117 13545	100Ω 1% 0402
3003	4822 117 13525	24kΩ 1% 0.62W 0603
3005	4822 117 13545	100Ω 1% 0402
3006	4822 117 13606	10kΩ 5% 0.01W 0402
3007	3198 031 14710	4 x 470Ω 5% 1206
3008	4822 117 13523	220Ω 5% 0.63W
3010	4822 117 13543	470Ω 5% 0402
3011	4822 117 13545	100Ω 1% 0402
3012	3198 031 11010	4 x 100Ω 5% 1206
3013	3198 031 04720	4.7kΩ 5% 0402
3014	3198 031 04720	4.7kΩ 5% 0402
3015	4822 117 13545	100Ω 1% 0402
3016	4822 117 13545	100Ω 1% 0402
3021	4822 117 13605	Jumper 0402
3023	4822 117 13606	10kΩ 5% 0.01W 0402
3029	4822 117 13606	10kΩ 5% 0.01W 0402
3031	4822 117 13606	10kΩ 5% 0.01W 0402
3034	3198 031 11010	4 x 100Ω 5% 1206
3035	3198 031 11010	4 x 100Ω 5% 1206
3048	3198 031 11010	4 x 100Ω 5% 1206
3049	3198 031 11010	4 x 100Ω 5% 1206
3050	3198 031 11010	4 x 100Ω 5% 1206
3051	3198 031 11010	4 x 100Ω 5% 1206
3052	3198 031 11010	4 x 100Ω 5% 1206
3053	4822 117 13545	100Ω 1% 0402
3054	3198 031 11010	4 x 100Ω 5% 1206
3055	3198 031 11010	4 x 100Ω 5% 1206
3056	3198 031 11010	4 x 100Ω 5% 1206
3057	3198 031 11010	4 x 100Ω 5% 1206

3062	4822 117 13606	10kΩ 5% 0.01W 0402
4002	4822 117 13605	Jumper 0402
4004	4822 117 13605	Jumper 0402

5001	2422 549 45333	Bead 120Ω at 100MHz
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7001	9352 684 81557	SAA5801H/015
7002	9322 189 01668	AT24C32AN
7003	3198 010 70400	74LVC1G14GW
7006	9322 194 74671	M29W160ET70N6E
7007	9322 200 55668	IS41LV16100-50K



## 11. Revision List

**Manual xxxx xxx xxxx.0**

- First release.

**Manual xxxx xxx xxxx.1**

- Info on 42PF5421/10 added.